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SE S SW E W NE NW N

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-9
DATE Jan. 25 / PST
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
6F	1005	Larus sp.				1 adult, 5 imm.. mouth of Pearl Harbor. on sand bar.	
6F	1015	Brown Booby				Mouth of channel, Pearl Harbor	321
2	1022	Brown Booby		S	low	" "	32 113 106 78
1	1028	Bl-f. Alb.		—	low	Following ship	64 60
1	1030	Pom. Jaeger		—	50'	" "	
1	1108	Common Noddy		W	low		
						(Secured watch 1130)	1950
						Watched Started 1204	
							360
1	1204	Bl ft. Albatross		—	-	following ship	90
1	1214	Sheanwater/ Petrel		N	low	light wind with little soaring	21 / 71
1	1220	Pomarine Jaeger		S	20'	Dark Phase	
1	1229	"		S	20'	Lite Phase	
	1241	"	3	S	20'	Lite phase	61
	1246	"	2	SW	20'	lite phase	37
	1253	"	1	S	50'	lite phase	98
	1258	"	1	S	50'	Lite phase	
	1312	"	1	S	50'	Lite Phase	
F	1319	Sooty Tern	10+	S			
		Red-ft. Booby	2	S			
	1321	Pomarine Jaeger	1	E	20'	Dark Phase	
F	1325	Sooty Tern	27	N		—	
F	1358	Sooty Tern	35		—	—	
		Red-ft. Booby	8		—		
	1533	W-T Tropic	1	W	100'	adult	
F	1537	Sooty Tern	7	W	30'		
	1540	"	1	W	low		
	1542	B-f Alba	1	—	—	following ship + 2 others	

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7-28-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF 27

DATE 25 Jan
Pg.# SW

	time	species	#	dir.	hgt.	remarks	loc.
1	1614	Bl-f. Albatross		—		Circling ship with 3 others	
1	1616	Wh-f. Tropicbd		NW	High		
3	1618	Sooty Tern		NW	Low		
2	1645	Sooty Tern		NE	50'		
1	1655	Sooty Tern		NE	Low		
3	1658	Sooty Tern		NE	Low		
2	1706	Sooty Tern		NE	30'		
1	1710	Bl-f. Alb.		—	—	Circling ship with 4 others	
	1712	Sooty Tern	1	S	Low		
	1815					4 Bl-footed & 2 Pom Jaegers still present	
	1825					Bye Bye Sun	

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ATF-7

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 26 Jan 1965 Total Minutes: 639 Total Miles

1. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
12	23	1.91	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
2	1	0	0	4	3	0	0	2	3	0	0				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
None											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
4	9	2.25	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
7	1	6	-	10	1	9	-	1.42	1	1.5	-				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
1	5		None		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-7
DATE 26 Jan 1965
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0640	Sooty Tern	1	WSW	80'		
	0714					Sunrise	
	0751	Soo Ty Tern	2	WNW	100'		
	0848	"	4	WNW	Low		
	0910	Leach's St. Petrel	1	NW	Low	Leach/Harcourt	
	0912	Tern Spp.	2	NE	Low	secured for lunch 1130	1
							240
							16
						Resumed 1200	300
							60
	1223	R-f Booby	1	E	Low		23
F	1256	R-f Booby	2	⇦	Low		639
		Wedgetail	3	⇦	Low		
	1322	Sooty Tern	1	WNW	Low		
	1425	R-f Booby	1	↻	30'	Immature - grey eye - all brown	
	1625	~~Blue~~ Blue faced Booby	1	E	40-0	Feeding, possibly ♀. diving AND skimming surface feeding	
	1700					Secured for Dinner	
	1719					Resumed watch	
F	1753	Red-footed Booby	3	NW	10'	1 Adult + 2 ~~immature~~ dark	
	1819	Red-footed Booby	1	N	10'	~~Adult~~ white ~~white + dark~~	
	1834	R.F. Boob.	1	↻	60'	Adult mottled white + dark	
	1842					Apparent sunset	

3
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19
23

$12\overline{)23}\ 1\ 8$
12
110
96
14

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

ATF-7

DATE: 27 Jan 1965 Total Minutes: 650 Total Miles _____

1. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
15	35	2.33	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
3	- 3	- 4	- 4	-				1.3	- 1.3	-					

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
3	1	2	3	1	2	1	1	1			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
4	19	4.75	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
7	2 5	- 7	2 5	-				1	1	1	-				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	2	1	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
3	22		0		

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SW

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-7
DATE Jan. 27 1965
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0640	—	—	—	—	Open watch – wind SE, sea calm w/ few white caps	
	0742	Pterodroma sp.	1	N	Low		
	0912	R.F. Boob	1	N	50-20	mottled white + black	
F	0952	Sooty Tern	6				
		C. Noddy	1	(S)			
		~~Pelagic sp.~~	2				
		Red Foot B.	1			White Phase	
	0958	Sooty tern	1	N.			
	1105	W-T Tropic	1	SW	100'		
	1130	—	—	—	—	secured watch	
	1145					resumed watch	
	1200	R-f. Booby	1	NE	Low	Immature -	290
F	1247	Sooty Tern	5	SW	Low		315
	1300	Red-f. Booby	1	NE	Low	} ~~moving~~ moving together. Frigate either	45
		Fregata sp.	1	NE	200'	female or immature.	650
	1343	Blue-f. Booby	1	(D) NW	200'	Adult	
	1442	Pterodroma externa Juan Fernandez Petrel	1	E	low	Whitish rump, white underwing, black primaries underneath wings brown on top back grayish, black line thru eye. White forehead. imm. All light brown, dark band across breast. chased flying fish that was gliding from ship	
	1500	R.F. Boob	1	(E)	90-5		
	1625	W. T Tropic	1	Wly	90'		
	1700	—	—	—	—	secured watch	
	1714					resumed watch	
F	1715	Sooty TERN	6	SE	75'	flock	
		Fregata sp	1	(S)	250'	circling east of ship and north	
	1734	B.F. Booby	1	E	10'	of passing flock of terns	
	1746	~~thb.~~ T-tropicB Red	1	E	25'	subadult plumage (imm.)	
	1800	—				sunset; watch secured	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

ATF-7

DATE: 28 Jan 1965 Total Minutes: 682 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
17	21	1.23	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
9	-	7	-	9	-	7	-	1	-	1	-				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
1	1	-	1	1	-	1	1	-			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
4	1	3	-	4	1	3	-	1	1	1	-				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	6	3	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
1	5		None.		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF #7

DATE Jan 28, 1965
Pg.# 1

time	species	#	dir.	hgt.	remarks	loc.
0600					watch Resumed	
0620					Sunrise: Pcly Cldy skies	
0702	Juan Fernandez Petrel	1	S	2'		
0706	Red-footed Booby	1	◎		Dark bird	
0714	Pterodroma	1	SE	30'	white below; dark above	
0728	B.F. Booby	1	◎	60-75'	subadult Feeding by diving chasing flying fish LAST SEEN sitting NEXT to floating glass ball	
0745	R.F. Booby	1	SW	20'	dark wings, white body, dark back between wings	
0851	Juan Fernandez Petrel	1	NW	5'		
0907	Red T-Tropicbird	1	◎	100'	circled over rear of ship	
0927	Red-footed Booby	1	NW	20'	~~dark bird~~ dark wings Tops + bottom- (Seemed watch) rest white	305 360 ?? 082
1125					Resumed watch	
12:00						
1342	Kermadic(?) pt.	1	E	10'	top All brown - underside; wing brown with white mottling, belly white, incomplete buffy chest band, darkeye patch, white throat.	
1348	tern sp.	1	N	10'	→ All dark possibly c. Noddy	
1423	Gr. Frigatebird	1	◎	100'		
1440	Juan Fernandez Petrel	1	NE	5'		
F 1442	G. Frigatebird	5	NE	5' to 500'	all ♂'s; circled and dipped low then rose and flew NE	
1522	Juan Fernandez Petrel	1	E	5'		
1530	Pterodroma ~~Kermadec Petrel~~	1	S	5'	probably Phoenix Is. or Tahitian Petrel -	
1532	Leach's Type Petrel	1	SE	5'	dark brown above - white abdomen - brown chest band size of Wedgetail. Under	
1652	Leach's Type St. Petrel	1	S	5'1"	Brown stripes on wings ~~(Phoenix)~~	
1817					Sun down	

1 12 9
17 21
17
40
34
60
6 2 1

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 29 Jan 1965 ATF-7 Total Minutes: 694 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
18	21	1.17	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
11	-	5	3	13	-	6	3	1.18	-	1.2	1				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
1	—	1	1	-	1	1	-	1			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
5	2	3	-	5	2	3	-	1	1	1	-				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
/	/	/	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
None					

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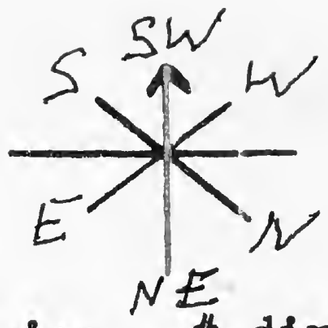
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-7
DATE 29 Jan 1965
Pg.# 1



time	species	#	dir.	hgt.	remarks	loc.
0611					beginning of watch on gun deck time of sunrise not determined due to cloud back in east (sunrise due at 6:37)	
0730	Wh-tailed Tropicbird	1	ⓐ	75'	circled over ship	
0755	Kermadec Petrel	1	W	25'	7 / 18|130 / 126 / 40	
0825	Kermadec P.	2	NW	Low	300	
1134					close watch 18 IC 1A 42	
1145	———	—	—	—	watch resumed	
1307	~~Albatross~~ Black-browed Albatross	1	NW	20'	420 / 394 / Top of wings and back - black Tail Head, rump & underparts - white bill - yellow (PWW) seen at close range by RK & PW. Adult bird - did not follow ship.	
1330	Bulwer's	1	SE	Low		
1330	Frigate	1	~~NE~~	80'		
1358	Bulwer's	1	SW	Low		
1448	R-f. Booby	1	~~ⓜ~~ ⓖ	50'	Immature	
1630	tern sp	1	NE	200'	dark on top, TAN underneath (possibly slightly larger than sooty tern?)	
1636	~~Pr~~ Procellariformes	1	SE	Low	dark on top white on bottom	
1648	R.F. Boob.	1	ⓑ	70'-5'	chest band, brown on top, white belly,	
	Procellariformes	2	ⓒ	Low	white under, dark over,	
1658	Bulwers ?	1	NW	Low	All dark	
1715	RF Boob.	1	N+ⓑ	50-10'	very dark upper and anterior lower sides, belly, white tips of ~~wing~~ wing light.	
1721	Petrel	1		Low	white under, dark over	
1730	Blue-f. B.	1	E	—		
1731	Pterodroma sp.	1	E	low		
1735	B.F. Boob	1	ⓑ	50-5'	subadult.	
1759	J. F. Petrel	1	ⓥ	30-5'	terminate watch	
1816						

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

ATF-7

DATE: 30 Jan 1965 Total Minutes: 725 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
41	159	3.87	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
34	8	13	1	67	16	17	1	1.9	2	1.3	1				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
3	3	-	3	3	-	1	1	-			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
8	86	10.75	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
1	-	1	-	1	-	1	-	1	-	1	-				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
4	103		None		

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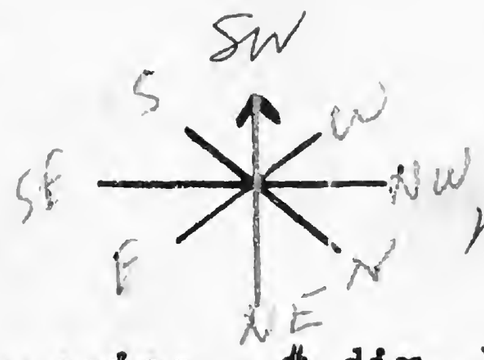
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-7
DATE Jan. 30, 1965
Pg.# 1 of 2



Wind SE, overcast, rain squalls.

	time	species	#	dir.	hgt.	remarks	loc.
						Start watch 0615 - dark until 0630 Sunrise obscured by rain squalls	
	0630					Start	
	0642	Sooty Tern	1	NE	50'		
	0725	Christmas S. Sh.	1	SE	5'		
	0727	Pterodroma sp	1	SE	5'		
	0743	Red-T. Trop.	1	NE	50'		
F	0937	Sooty Tern	25	NE	50'	flock no apparent feeding	
		Xmas Sh.	1	NE	low		
		Pterodroma	2	NE	low		
	0957	Shearwater/ Petrel	2	E	low	dark underwings and back & white underneath	
F	1000	Shearwater/ Petrel	1	SE	low	together	
		Sooty Tern?	5	SE	75'		
	1022	Tern	1	WNW	Low		
F	1026	Sooty	30				
		Shear-Pet	12	2	Low		
	1110	Bulwer's	1	SE	Low		
F	1112	Tern	20				
		Pet-Shear	6	NE	Low ⇒ 50'	& distant	
	1138	PETREL-SHEARWATER	1				
	1150	WEDGE-TAIL SHEARWATER	1	NW	10'		
	1201	Wedge-t. Sh.	1	SE	5'	Dark phase	
	1215	Wedge-T. Sh.	4	SE	5-10'		
	1217	Wedge-tail	3	NW	5'		
	1240	Phoenix S., P.	1	NW	5'		

12
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725

13 | 11
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40
34

15-9
123
360
328
320

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SW

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-7
DATE Jan. 30, 1965
Pg.# 2 of 2

time	species	#	dir.	hgt.	remarks	loc.
1315	Common Noddy	1	SE	5-20		
1321	L/H St. Petrel	2	—	5'	landed on water after circling around with C. Noddy	
1344	Shea-Petrel	3	NW	5'	2 dark back, white underside; 1 all dark — distant	
1404	Bonin type	1	S	5'-35		
1408	J. Fernandez P	3	≋	5-20'		
1410	Wedge-tail	4	N	5'		
1413	R.t. tropicbird	1	◎	40'		
1429	Cook pet	1	W	30-1'		
	Sooty tern	3	E	100-1	two ~~probable~~ immatures, one feeding	
1440	R.T. Trop.	1	E	100'	imm.	
	J. F. Petrel	1	E	30-1		
1446	J.F. Petrel	1	E	11		
1454	Bwd. sp	1	SE		possible sooty tern going along edge of rain squall	
←	pterodroma sp	1				
1509	Phoenix Isl.	1	NW	Low	not 100% positive but probable	
1528	J.F. Petrel	1			sitting on water.	
1539	J.F. Petrel	1	E	1'		
1542	White Nacked petrel	1	E	Low		
1550	W Edgetail Sh.	1	NE	Low	Light Phase	
1557	L/H. storm pet	1	SE	1'		
1603	L/H Storm P	1	E	Low		
1635	Wedgetail	1	W	Low	light phase	
1645	Frigate	1	N	100'	immature	
1745	R/H Storm	1	SE	Low		
1746	L/H Storm	1	SE	Low		
1750	Wedgetail	1	WNW	Low	dark phase	
1806	Red-foot	1	NNW	Low		
1935					End Watch	

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

ATF-7

DATE: 31 Jan 1965 Total Minutes: 715 Total Miles _____

1. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
43	525	12.2	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
20	8	1	1	25	8	1	1	1.25	1	1	1				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
1	1	—	1	1	—	1	1	—			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
25	495	19.8	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
1	—	—	—	1	—	—	—	1	—	—	—				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
2	3	1.5	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
9	482		1	60	

SI-MNH-958e
7-28-64

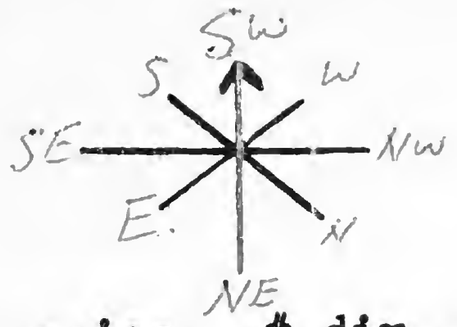
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-7

DATE 31 June 1965
Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
	0738					Watch Resumed. Still fairly dark	
	0739	Sooty Tern Imm.	1		100'	circling ship; Eventually went south	
	0743	Storm Petrel	1	SE	Low	to dark to see well	
F	0746	Sooty Tern	6	SE	60'	Several immatures & 1 adult	
		Shearwater	1	SE	low	Dark all over	
	0750	Tern	1	SE	50'	Dark with light undertail, Tail squarish	
	0700					Apparent Sunrise	
	0703	Shearwater	1	SE	low	Thought to be Audubon, very small & stubby wings & rapid wing beat. white underneath dark on top, wings like underneath	
	0814	Shear-Pot	1	N	Low		
F	0824	tern	6		40'	distant.	
	0828	Shear-Pot	1	S	Low		
F	0845	tern	250±25				
		booby	1		50'	very distant	
	0852	Leach's Storm Petrel	1	NE	Low	black line in middle of white rump-buffy patch prominent	
F	0855	Sooty Tern	13	S	60'		
	0855	Bulwer's	1	SE	Low		
	0901	Sooty Tern	1	W	20'	immature	
	0916	Wedgetail	1	SE	Low	- immature light phase	
	0917	Wedgetail	1	SW	Low	dark phase	
	0930	Sooty Tern	1	N	50'	immature	
	0930	Wedgetail	1	SW	Low	light phase.	
	0933	tern	1	E	80'		
	9000	Wedgetail	1	N	Low	dark phase	
	1000	tern	1	NE	60'		
	1008	Audubon's Sh-	1	NE	5'		
	1023	Sooty Tern Immature	1	E	65'		

SI-MNH-958e
7-28-64



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

ATF-7

DATE 31 JAN 1965
Pg. # 1

	time	species	#	dir.	hgt.	remarks	loc.
	1102	Sooty Tern	1	NW	40'	Immature	
	1103	Wedge tail Sh.	1	NE	5'	Landed on water astern	
	1112	Wedge-tail Sh.	1	SW	5'		
	1115	Sooty Tern	1	SW	30'	Immature	
	1135					WATCH SECURED	
	1140					resume watch	
	1347	L/H storm pt.	1	SW	200		
	1402	Sooty Tern	1	NE	20 70	immature (brown plumage)	
	1420	L/H Storm	2	SW	Low		
	1548	Sooty Tern	1	SW	To 80'	adult.	
F	1556	Terns	50		70'		
	1631	Red-t. Tropich.	1	NE	50'	Immature -	
	1643	Juan Fernandez P.	1	NE	Low	Had wing moult on primaries	
	1644	Sooty Tern	3	NE	35'	Immature —	
	1650	Sooty Tern	2	NNE	35'	" "	
	1706	Sooty Tern	2	SW	Low	Adults	
	1725	Frigate	2	SE	80-100		
		Tern	1	NE	70'	Dark colored	
F	1744	Sooty Tern	35	NE	70'-1	—	
		Shearwater/ Petrel	4		Low		
	1745	Wedge-tail?	1	SW	Low	Light phase	
F	1753	Sooty Tern	65	NE	—	feeding	
		frigate	1	NE	—	"	
F	1754	Sooty Tern	45	NE	40'-1	—	
		Shearwater/Petrel	1		—	—	
	1835	Sooty Tern	1	NW	1		
		Wedge-tail	1	NW	1	Dark Phase	
F	1837 1900	Sooty Tern	5	W	Low	Immature	

250 145 — 25 247 225 220 — 130 — 215 282 — 497 — 1260 — 22 — 361 — 19 — 25/497

DATE 18 FEB 1965

Time at sunrise = 0635 Position at sunrise = 03-07S 171-43W

Time at sunset = 1845 Position at sunset = 05-01S 171-44

Miles traveled from 0000 hours to sunrise = 24 MILES

Miles traveled from sunrise to sunset = 108 MILES

Miles traveled from sunset to 2400 hours = 50 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	DR	171-42W	03-32S
2.	1200	CELESTIAL	171-46W	04-02S
3.	1600	DR	171-44W	04-34S
4.	2000	CELESTIAL	171-39	05-19S
5.				
6.				

DATE 19 FEB 1965

Time at sunrise = 0630 Position at sunrise = 06-41W 171-30W

Time at sunset = 1845 Position at sunset = 09-13W 171-04W

Miles traveled from 0000 hours to sunrise = 67 MILES

Miles traveled from sunrise to sunset = 127 MILES

Miles traveled from sunset to 2400 hours = 55 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	171-13W	07-00S
2.	1200	CELESTIAL	171-07W	08-02S
3.	1600	DR	171-04W	08-44S
4.	2000	CELESTIAL	170-59W	07-18S
5.				
6.				

DATE 20 FEB 1965

Time at sunrise = 0630 Position at sunrise = 10 -46S 170 - 49W

Time at sunset = 1805 Position at sunset = 12 8 6 S 170 - 40W

Miles traveled from 0000 hours to sunrise = 57 MILES

Miles traveled from sunrise to sunset = 106 MILES

Miles traveled from sunset to 2400 hours = 45 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	170-44W	11-01S
2.	1200	CELESTIAL	170-47W	11-34S
3.	1600	DR	170-40W	12-04S
4.	2000	CELESTIAL	170-41W	12-37.5S
5.				
6.				

DATE _____

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.				
2.				
3.				
4.				
5.				
6.				

DATE Feb 1 1965
Pg.# 1a

time	species	#	dir.	hgt.	remarks	loc.
0603					Sunrise	
0615	Sooty Tern B-f. Booby	20±			Circling ship in large numbers	
0631					Sunrise	

7.144

SI-MNH-955a
3-4-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART A

ATF-D

DATE: 18 Feb 1965 Total Minutes: 716 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
104	982	9.4	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
11	4	1	-	11	4	1	-	1	1	1	-				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
None											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
85	927	10.9	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
15	13	2	-	22	20	2	-	1.46	1.6	1	-				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
11	22	2	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
~~40~~39	862		7	222	

DATE ~~Feb~~ FEB 1965
Pg.# 1

18 FEB 1965 ? P/C

time	species	#	dir.	hgt.	remarks	loc.
0600					watch began	
0610	Sooty Tern	1			heard but not seen	
0618	" "	2	⑥	20'	circled near bow of ship	
0631					sunrise	
0634	Sooty Tern	1	SE	25'		
0655	Blue-f Booby	1	E	25'		
0656	Sooty Tern	1	SW	50'		
0700					watch resumed	
0715					" resumed	
0722	BF Booby	1	NW	30'	adult	
0727	Sooty Tern	1	S	75'		
0728	BF Booby	1	N	30'	adult	
0729	Sooty Tern	6	S	50'		
0732	" "	9	S	20'		
0732	BF Booby	1	N	25'	adult	
0737	Sooty Tern	15	S	20'		
0737	Unidentified	1	N	15'		
0740	Sooty Tern	1	S	40'		
0750	" "	2	N	100'		
0752	" "	15	SE-SE	30'		
0752	" "	11	S	15'		
0754	BF Booby	1	S	40'		
0755	Sooty Tern	3	S	20'		
0756	" "	6	S	15'		
0805	" "	5	N	20'		
0820	Unidentified Booby	1	SW	10'	Immature	
0829	Sooty Tern		W-W	20'		
0829	Blue-f. Booby	1	S	20'	Immature	
0830	Sooty Tern	8	S	40'		
0845	Blue-f. Booby	2	S	10-40	Immatures - one with black spray paint on neck (Bruce)	
0845	Sooty Tern	4	N	60'		
0856	" "	2	E	60'		
0915	Sooty Terns	50	E	40'	birds seen in 50 foot circle	
	BF Booby	2				
		1				
0934	Sooty Tern	1	E	50'		
0934	" "	1				

0603
1852

360
360
99
719

DATE FEB 18 1985
Pg.# 2

	time	species	#	dir.	hgt.	remarks	loc.
	0935	Sooty Tern	1	N	low		
F	0940	" "	5	N	15'		
	0941	Gull-billed Tern	1	NE	05		
F	0947	"	9	N	0-20'		
	0951	Sooty Tern	1	E	50-60		
	0957	" "	1	N	20'		
	0958	" "	1	E	Low		
	1000	Laughing Gull Sooty Tern	1	S	low		
F	1002	Sooty Tern	4	N	"		
	1003	Gray-backed Tern	1		"		
	1004	Sooty Tern	4	E	"		
F	1006	" "	7	SE	"		
F	1007	" "	6	E	"		
	1008	" "	1	N	"		
	1009	" "	1	S	"		
F	1010	" "	5	SE	"		
	1019	" "	2	E	"		
	1028	L/H Skimmer	1	S.	low		
F	1035	Sooty Terns	40				
		Blue Face B	7			two blue faced morphs with Black or Dark Brown	
		Common Noddy	2				
		Gray-backed Tern	10				
		Wedge-tail	1			Dark Phase	
		L-Frigate B	1				
F	1041	Blue Face B.	1	S	Low		
	1049	L/H Skimmer	1		Low	bathing on water in Int.	
FF	1051	Sooty Terns	50				274
		Wedge-tail	1			Dark phase feeding flock	201
		Gray-backed	4				222
		Blue Faced B	1				717
	1055	Fairy Terns	1	NE	60'		
	1056	" "	1	W	60'		
F	1107	Sooty Terns	5	NW	low-90'		

DATE Feb 18
Pg.# 3

	time	species	#	dir.	hgt.	remarks	loc.
F	1116	Frigatebird	1	NE	60'		
	S	Sooty Tern	15		25-60		
		Red Footed Booby	1		15-20		
F	1128	Blue Footed Booby	1	NE	Low		
		Sooty Tern	16	"	20-40'		
	1130	Spotted Dolphin					
	1150	Pygmy Killer Whale					
	1151	Longtail	1	S			
		Tropic	1	E		Seemed to fly with Frigatebirds - Crested ?	
	1216	Fairy Tern	1				
	1220	Sooty Tern	3	S	100'		
	1230	" "	4	W	25'		
	1234	Leach's Petrel	1	—	H_2O	Low over water	
F	1241	Sooty Tern	7	W	50'		
F	1246	" "	34	NW	100'		
	1246	BE Booby	1	S	20		
F	1300	Pantropical Spotted Dolphin	1	SE	10		
F	1300	Sooty Terns	7	S	low		
F	1303	" "	30	W	75'		
F	1309	" "	5	S	100'		
	1321	" "	3	N	20'		
V	1325	" "	11	W	100'		
	1328	" "	4	N	50'		
	1351	" "	2	N	75'		
F	1355	Frigatebird	1	NW		> all together	
	[redacted]	RF Booby	1	NW			
	[redacted]	Sooty Tern	30	NW			
	1357	Leach's type Petrel	1	SW	5'		
	1410	Thermometer-Petrel	1	NW	10'		
F	1418	Sooty Tern	20	SE	10-40'		
F	1410	Sooty Tern	4	SE	40		
F	1445	Sooty Tern	5	N	10		
	1443	Sooty Tern	3	SW	40		

DATE Feb. 18 1965
Pg.# 4

	time	species	#	dir.	hgt.	remarks	loc.
F	1514	Sooty Tern	(8)	N	10 yds	3 light phased Wedge-tail	
			+2				
		Wedge-Tail	1		150'		
		Frigate sp	2	150			
FF	1531	Sooty Tern	16	N	20-30	feeding flock	
		Fairy Tern	2				
	1535	Sooty Tern	3	N	40		
	1535	"	1	N	30'		
	1540	"	4	N	40'		
	1546	"	1				
	1548	"	2	N	low		
	1549	"	3	(D)	low		
	1604	"	3	(D)	low	feeding	
FF	1635	"	10	(C)	low	feeding	
		Lesser Frigate	1	C	100-0'	Chasing Sooties	
FF	1645	Sooty Terns	10	(D)		feeding	
		Frigate	1			chasing	
F	1647	Sooty Tern	5	N	30'		
F	1650	"	30	N	30'		
FF	1655	"	30	N		feeding	
		Frigate	1			chasing	
V	1657	Sooty Tern	5	N	low		
	1745	Sooty Tern	1	N	low		
F	1745	"	15	N	60-200'		
		Frigate	1	N	100'		
	1746	Sooty Tern	4	(D)	40'		
F	1755	"	6	W	30'		
	1759	"	2	N	20'		
V	1804	"	47	N	30'		
F	1817	"	25	(D)		feeding	
		Frigate	1	C		chasing	
F	1821	Sooty Tern	50	(D)		feeding	

DATE 18 Feb 1965
Pg.# 5

time	species	#	dir.	hgt.	remarks	loc.
F-102	~~1825~~ Frigate	7	S		Chasing Sixty Tom	
	1825 Sixty Tom	1	N	30'		
FF	1839 " "	30			feeding	
	Frigate	4			Chasing	
	1852				Apparent Finish	

SI-MNH-955a
3-4-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART A

ATF-7

DATE: 19 Feb 1965 Total Minutes: 712 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
22	101	4.59	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
3	-	1	-	3	1	-		1	-	1	-				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
6	~~6~~	6	8	-	8	1.3	-	1.3			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
12	~~87~~	7.~~08~~ 25	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
None															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
6	80		5	62	

DATE Feb 19 1965
Pg.# 1

Wind E 5-10 mph.
Sea calm, few whitecaps

time	species	#	dir.	hgt.	remarks	loc.
0633					Sunrise - commence motel	
0837	Sooty Tern	1	N	20'		
0850	Pterodroma	1	S	low	mottled underwings, back brown, top of head white, underneath light brown	
0904	White-tailed Tropicbird	1	S	100'		
0945	"	2	S	100'		
0953	Sooty Tern	1	N	30		
1005	W. Indian	1	S	100'		
1014	Sheam-Pt	1	NW	Low		
1017	St Croix Pt	1	S	Low-	white rumped-black type bill with short square tail-black much less than white. Butterfly-like flight	
1130					Leave	
1150					Resume	
1300	Sooty Tern	3	SE			
	Fairy Tern	4				
1314	Fairy Tern	2	NE	Low	(probably fm 1300 group)	
1316	Sooty Tern	4				
1326	Frigate sp	1		low	feeding	
1348	Fairy Tern	1	NE	Low		
1337	Wh. Tropic	1	W	50'		
1405	"	2	E	50-0	feeding	
1410	Fairy Tern	6			feeding flock - collected one Sooty	
	Sooty Tern	7			[redacted] common noddy	
	Dowitcher	1				
1428	Shorebird sp	1	E	5'-10'	large [redacted] brown-grey, tail short, narrow base like a wedge-tail, just up off water	
1443	Sooty Tern	2	W	50'		
1455	Fairy Tern	5				
	Sooty Tern	14			feeding flock	

DATE Feb 19, 65
Pg.# 2

	time	species	#	dir.	hgt.	remarks	loc.
PP	1459	Fairy Tern	14	E		feeding flock	
PP	1519	Sooty Tern	5	N		feeding	
		Fairy Tern	15	N			
	1617	WT Tropicbird	1	W	75'		
	1700					Watch secured	
	1715					Underway	
	1782	Fairy Tern	1	E	20'		
	1850					Log	

12 60
737
25
712

125
1287
89/30
24/60

459
22/161
88
130
110
200
198

SI-MNH-955a
3-4-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART A

ATF-7
DATE: 20 Feb. 1965 Total Minutes: 647 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
32	117	3.66	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
9	6	-	-	21	16	-	-	2.3	2.6	-	-				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
21	1	20	81	1	80	3.9	1	4			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
5	11	2.2	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
None															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
6	64		5	58	

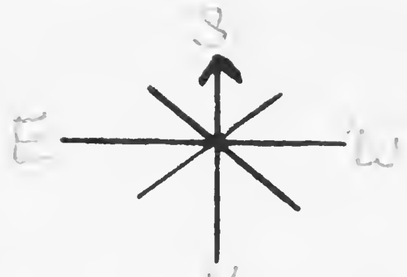
ATF-17

DATE Feb-20 /1965

Pg.# 1

	time	species	#	dir.	hgt.	remarks	loc.
0633						Sunrise - Watch Commences	
	0720	Heat Thrm	2	E	100'		
	0721	W.T. Tropic	2	E	60-70	feeding	
	1029	W.T. Tropic	1	E	40-50	90° on opp side fm. of 50-60	
	1052	W.T. Tropic	1	E	low	back over	
	1054	Sooty Tern	1	E	60'		
	1121	White Tailed Tropic	1	E	low	took off from water with rose pink bill	
	1130					several dozen + counted	
	1145					water round	
	1200	Fou Tern	2	SE	100-150'	50-60 yds round	
	1207	White tailed Tropicbird	1	N	100'		
		"	1	NE	100'		
	1226	"	1	E	200'		
FF	1229	"	11	E		feeding	
	1245	"	1	E	200'		
	1250	"	2	E		feeding	
	1310	"	2	E		feeding	
		Sooty Tern	5	E		"	
		Brown Noddy	2	E		" with black	
	1320	White T Tropicbird	2	E	200'	feeding	
FF	1340	"	5	E		Feeding	
	1345	Shearwater	5	S	low	all dk bellied light on top. hooked	
	1355	Sooty Tern	1	SE	10'	like a wedge tail only somewhat larger	
FF	1359	W.T. Tropicbird	20	E		Feeding	
FF	1359	W.T. Tropicbird	11	E		Feeding	
	1400	"	1	N	60'		
	1413	W.T. Shearwater	3	W	10'	dark phase	
	1429	W.T. Tropicbird	2	NE	100'		
	1458	" "	1	E	75'	circled over ship	
	1509	" "	1	E	75'	flew up from water surface	
	1515	mid birds	4	N	10-40	black: fair-sized	
F	1530	Phaeton [illegible] Shearwater	1	SW	10'	black	
		W.T. Shearwater	5	SW	10		

3.65
32 | 117
46
210
192
18
12
200



DATE 30 Jan 1965
Pg.# 2

	time	species	#	dir.	hgt.	remarks	loc.
	1555	Wedge Tail Blue-winged	3	E	10'		
	1610	Wedge-tail	2	—	—	on water, 1 light phase shot	
F F	1631	Wh-t. Tropic	5	NE	10-20	feeding	
	1647	Wh-t Tropic	1	S	40	- shot at 1650	
	1648	Red-t. Tropic	1	NE	300'		
	1657	Wh-t. Tropic Wedge tail	2 3	NE	Low		
	1700					Secured watch for char	
	1730					Resume watch	
	1755	Sheer. Petrel	1	NE	Low	—	
	1805					Secured watch	

8

1-1
1-3
1-5
1-3
1-2
1-2

720
-15
30
28
45
73

71
720
73
647

"
2181

DATE Feb 25
Pg.# 1

time	species	#	dir.	hgt.	remarks	loc.
1220	Heading 90°				Watch Commenced Heading 90°	
1004	Wedge-Tail	1	90°	low	- Dark Phase	
1005	Fairy Tern	1	90°	low		
1007	Wedge-tail	1	180°	low	Dark Phase	
1008					changed course to 0°	
1012	Wedge-Tail	150±	E	low	Dark Phase	
	Fairy Tern	75±	E		feeding	Just E of Munnin Island 1 mile
	Common Noddy	1000±	E			
	Brown Booby	10±	E			
	Red-footed Booby	10±	E			14° 17'
1015	"	2	E			170° 50'
1020	Petrel	50±	S	very low		
1026	Wedge Tail	1	E	low	Dark Phase	
	R-f. Booby	5	E	low		
	Common Noddy	1	E	low		
1030	Blue-grey Noddy	1	(E)	low		
	R-f. Booby	1	E	low		
1031	"	1	E			
1035	Wedge-Tail	3	E	low	Dark Phase	
	Fairy Tern	8	E	low		
	Tern sp	2	E	low		
1038	R-f. Booby	1	(E)		dark bird	
1041	Brown Booby	1	E	low	Adult	
1044	R-f. Booby	1	E	low		
1044	1 Fairy Tern	1	E	low		
1049	~~Wedge-Tail~~	5	E	low		
	Common Noddy					
1046	"	3	E	low		
1046	Fairy Tern	1	E	low		
1046	" "	1	E	low		
1050	Wedge-Tail	1	NW	low		
1100	W-T Tropicbird	1			Sitting on U.I.	
1109	wedge-tail	1	E	low		
1109	R-f booby	1	(E)	low		
1152					Returned for Lunch	

DATE 04 MARCH 1965

Time at sunrise = ~~Position at sunrise~~ = AT ATAFU

Time at sunset = 1845 Position at sunset = 07-56S 171-37W

~~Miles traveled from 0000 hours to sunrise~~ = 83 MILES

Miles traveled from ~~sunrise~~ 1405 to sunset = 65 MILES

Miles traveled from sunset to 2400 hours = 63 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1600	DR	172-05W	08-13S
2.	2000	CELESTIAL	171-24	07-48S
3.				
4.				
5.				
6.				

DATE 05 MARCH 1965

Time at sunrise = 0623 Position at sunrise = 06-32S 169-39W

Time at sunset = 1827 Position at sunset = 05-09S 167-37W

Miles traveled from 0000 hours to sunrise = 83 MILES

Miles traveled from sunrise to sunset = 148 MILES

Miles traveled from sunset to 2400 hours = 68 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	169-27W	06-25S
2.	1200	~~CELESTIAL~~ DR	168-44.5W	05-55S
3.	1600	DR	168-01W	05-29S
4.	2000	CELESTIAL	167-25W	05-03S
5.				
6.				

DATE 6 MARCH 1965

Time at sunrise = 0509 Position at sunrise = 03-56S 165-33W

Time at sunset = 1810 Position at sunset = 02-37S 163-27W

Miles traveled from 0000 hours to sunrise = 81 MILES

Miles traveled from sunrise to sunset = 150 MILES

Miles traveled from sunset to 2400 hours = ~~75~~ 69 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	165-13W	03-44S
2.	1200	CELESTIAL	164-30W	03-19.5S
3.	1600	DR	163-48W	02-51S
4.	2000	CELESTIAL	163-13W	02-29S
5.				
6.				

DATE 7 MARCH 1965

Time at sunrise = 0555 Position at sunrise = 01-26S 161-38W

Time at sunset = Position at sunset = AT JARVIS

Miles traveled from 0000 hours to sunrise = 69 MILES

Miles traveled from sunrise to ~~sunset~~ ARRIVAL = 114 MILES

~~Miles traveled from sunset to 2400 hours~~ =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	161-19W	01-11S
2.	1200	CELESTIAL	160-23	00-43S
3.				
4.				
5.				
6.				

DATE Feb 25, 1965
Pg.# 2

	time	species	#	dir.	hgt.	remarks	loc.
	1155					Resume watch	
	1200	Sula sula	3	(E)	Low		
	1210	Fairy Tern	1	N	20'		
	1235	Audubon's Shearwater	1	N	15'		
	1245	Wedge Tail Shearwater	1	S	20'		
	1249	RF Booby	2	N	100'	followed ship	
	1257	WT Tropicbird	1	S	100'		
	1257	Wedge Tail Shearwater	3	N	15'		
Flock	1320	Fairy Tern Shearwater- Petrels	40 200	N	up to 50'		
	1355	RF Booby	1	(C)	up to 20'	sitting in water	
	1542	Fairy Tern	1	SE	Low		
	1549	" "	1	E	"		
	1552	Wedge Tail	1	NNE	low		
	1615					watch secured	

Humphrey
Sibley
Thompson

Howland Island Survey

ATF#7

Ebruary 1-2, 1965

The present condition of vegetation on the island indicates recent rainfall. All plant species are greener and healthier in appearance than on the past two trips. Tribulus and Boerhaavia are in full bloom at present.

Several important changes have occurred in the island's bird populations. The Gray-backed Tern is nesting in increasing numbers with each successive visit. Sooty Terns have established a new colony along the west shore of the island and have also continued to nest in the large colony on the southeast shore. This colony, on the southeast shore, has now been active for eight consecutive months. Common Noddy Terns have reestablished themselves as a breeding species on the island as one 3/4 grown nestling was found and six adults were seen along the west shore.

SPECIES ACCOUNTS

Blue-faced Booby. Relatively inactive breeding status. A total of 57 nestlings, 7 small chicks, 9 nests were found. Overall population is down with only 800-1000 birds utilizing the island. Only three of four small clubs formed along the windward shore each night. There were no large roosting clubs on the interior of the island. The former large club on the southeastern shore was absent.

Red-footed Booby. Population is at a low point with only 7 nests with eggs. Roosting population was low with 40-50 birds.

Brown Booby. Population consisted of 33 nests (17 with eggs and 16 with nestlings) all but two located on southwest beach crest and a roosting population of about 60 birds.

Red-tailed Tropicbird. Inactive with only 3 adults observed and two nests with small young.

Greater Frigatebird. A total of 63 nestsfound (2 nests with small chicks and 2 with large nestlings) with fresh eggs in the Cordia grove in the central depression. An estimated 80 pairs were prestn. A total of 10 adult birds were marked with blue-blue plastic wing streamers.

Lesser Frigatebird. Some 1,500 nearly fledged birds are still present on the south end of the island. Between 8-10,000 adults

and immatures are utilizing the island at presnt.

Sooty Tern. The large colony along the east shore contains heavily incubated eggs and chicks of all sizes. One segment contained 3,000 nearly fledged young. This colony has been in use for eight consecutive months and is, apprently, being continually added to. On all visits it has contained all stages of development from fresh eg s to nearly fledged chicks. The new colony, on the lee shore near the Amelia Earhart lighthouse, was increasing rapidly in size during our visit. All eggs checked were either fresh or barely incubated. This location has never been used in our experience. One bird wearing a Biological Survey band 38-312056 was captured in the new colony. A total of 11,866 Sooty Terns were banded and 43 returns were obtained. The returns were birds banded as nesting birds last July. The total population was estimated at 75,000+ and increasing in size.

Gray-backed Tern. Becoming increasingly common as a nesting species. About 60 nest were located on the beach along the fringe of the new Sooty Tern colony. Previously, this species had been observed nesting only in an area 500 yeards south and east of the present location.

Common Noddy. One 3/4 grown nestling was banded. Six adults were seen in the area. The nest with the young was on the beach crest along the west shore.

Bristle-thighed Curlew. Previously an occasional bird was observed but this time 10 birds were seen on the shorebird count.

Wandering Tattler. A total of 16 present.

Ruddy Turnstone. A total of 79 present.

Golden Plover. A total of 76 present.

A total of 12,099 birds of 10 species were banded during the two day visit. One foreign recovery was obtained and 236 band returns recorded.

It was interesting to compare the present island populations with those of the February 1964 trip when cats were still present on the island. New nesting species since that date include: Sooty Tern, Gray-backed Tern and Common Noddy. In February 1964, large flocks of Blue-Faced Boobies came to the island to roost. These flights started late in the afternoon and increased in size and intensity until dark. On this trip the Blue-faced Boobies came to

the island singly or in small groups of two or three. Very small clubs, in comparision to those of February 1964, were formed along the windward side of the island. There were no clubs on the interior.

Respectfully submitted

C. D. Hackman
M. C. Thompson

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Gould

Humphrey
Ely
Sibley
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: **Howland Island** (2) Observer(s): **ATF #7**

3) YEAR: 1965 (4) MONTH: **February** (5) PERIOD: ~~1-15 to end of month~~ **February 1-2**

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Returns (14) ~~Rel.~~ ~~Class~~	Recoveries (15) ~~Age of Young~~	(16) ~~Date~~	Specimens (17) Young Banded	(18) Others Banded
Red-tailed Tropicbird		3		0			2					
Blue-faced Booby		900		9			64	179	2	1	55	69
Brown Booby		80		17			16				6	2
Red-footed Booby		50		7			5				2	0
Greater Frigate		100		63			4	9	1		0	10
Lesser Frigate		11500		0			1500	1			0	0
Sooty Tern		75000+		30000			3000	37	1-Bio Surv 38-312056	8	0	11866
Gray-backed Tern		130		50			0				0	36
Common Noddy		6		0			1				1	2
Bristle-thighed Curlew		10										
Wandering Tattler		16										6
Golden Plover		76										2
Ruddy Turnstone		79										

Other Details:

The ATF arrived at Howland Island on February 1 at 0900. The beach party was immediately sent ashore. Fairly heavy surf made the landings difficult. The outboard motors suffered damage but were repaired.

The first night was spent with Merrill, Hackman and Thompson taking 100 blood samples and Huber, Woodward and Kirkpatrick banding Blue-faced Boobies and Sooty Terns. A large colony of Sooty Terns has begun laying eggs in a 5 acre area around the Amelia Earhart light house. The is apparently the first time these birds have utilized this area. Another Sooty Tern colony was located in the same area on the east side of the island. The birds that were sitting on eggs on the ATF #6 now have young and a new group of birds have started laying over there. Some of the Sooty Terns returns were birds banded in July 1964 (presumably on eggs then also). This supports Ashmole's theory of a 6-month cycle for Howland Birds.

The Blue-faced Boobies were in low numbers and very little nesting activity was underway. The usual clubs on the east side of the island were present but with very few birds.

Brown Boobies were present in small numbers nesting. Thirty-three nests were found and probably a few more were missed.

Gray-backed Terns were also nesting on the edge of the Sooty Tern colony on the west side of the island near the light house. This is the first breeding group in this area also.

Lesser Frigates were still present in the area although reduced from last time. Approximately 1,500 chicks were left in the nesting area and were nearly able to fly.

Greater Frigates were all sitting on freshly laid eggs indicating a new breeding cycle. A few males were displaying.

A very thin band was recovered from a Sooty Tern. This is presumably another bird banded by Munro. This band was recovered by Huber in the course of banding 3,507 Sooty Terns in one night.

Blue-faced Booby chicks

main concentration of Blue-faced Booby nests

HOWLAND ISLAND

Sooty Tern co

Greater Frigate and Red-f Booby colony

preferred area for nesting Red-tailed Tropicbirds

LEGEND

12.4 spot elevation

runways

sand

Magnetic North

True North

SCALE

500 100 0 500 1000 1500 2000

contour interval two feet

Nesting Sooty Tern colony

Gray-b. Terns

Common Noddy nest

primary site of Gray-b. Terns

Former pro of colony

Arnold

Humphrey
Fish
Stokes
Thompson
Amos
Gross
Curtis

PROGRESS REPORT
ATF # 7 - February 1-21, 1965

Between February 1 and 21, 1965 thirteen days were spent on Howland and Baker Island and on five of the Phoenix Islands. In spite of logistic problems, caused by unusually heavy surf and a nonfunctional radar system, the U.S.S. Hitchiti (TF 103) provided the field party with excellant support and assistance during the period.

Surf conditions were unusually severe during the first half of the trip because of winds that deviated from the normal easterly direction. Frequent shifts of the wind, to the northeast, consistently produced a heavy surf that made landings and departures dangerous. Considerable damage was done to both rubber rafts and the outboards motors, numerous people were thrown out of rafts, and several raft loads of personnel and gear were capsized by the rough surf. A landing on Hull Island was decided against because of 15 foot surf along the entire length of the shoreline.

Throughout the first half of the trip roosting populations of the Blue-faced Booby have been consistently below those encountered during February and March 1964. There have been no large evening roost flights observed and the roost clubs have all been small.

Efforts have been made to wing tag adult Greater Frigatebirds on every island on which they occur as a breeding species. This has proven to be a very time consuming and fruitless endeavor on all islands except Enderbury, where a large nesting population was encountered.

A number of species have either been encountered on several of the islands for the first time, some as breeding species, or have appeared in larger than normal numbers. One three-quarters grown nestling Common Noddy was banded on Howland Island and six adults were observed. On Baker Island, the Gray-backed Tern has established itself as a nesting species away from the lagoon with a small colony of 12 birds. The Audubon's Shearwater was found and banded in small numbers on Enderbury Island (2) and Birnie Island (2). A club of 11 Wedge-tailed Shearwaters was enoountered on Birnie Island and a colony, estimated to contain 100 burrows, was found on Canton Island.

A total of 26,997 birds were banded and 1698 returns and 77 recoveries were made of 20 species. 385 blood samples have been taken. No fish or reptile collections have been made. Mammal and bird collections have been made where needed. Two days were devoted to at-sea collection between Canton Island and American Samoa during which birds were uncommon and only three specimens were obtained. A collection of live arthropods was made on McKean Island where an abnormally large tick concentration was encountered.

Folder sent to Dr. Gross

HULL ISLAND

A landing near the Sooty Tern colony was precluded by 12-foot surf crossing the boat channel. Heavy surf, from 12-20 feet, ran the entire length of the island.

A landing was made near the site of the village, later the same day, but the island was abandoned after one section of the rubber raft exploded and the surf increased.

A Phoenix Island Petrel was observed offshore as we departed.

BIRNIE ISLAND

This island's Polynesian Rat (Rattus exulans) population crashed between November 1964 and the present visit. Observed rats, during the late evening and at night, were only 5-10% of the numbers that had existed during November 1964.

The Gray-backed Tern, possibly as the result of the ebb in the rat population, has established itself as a nesting species with approximately 1000 pair present on eggs.

Wedge-tailed Shearwaters and Audubon's Shearwaters were encountered in small numbers.

One Hawaiian Noddy Tern banded on Motu Tabu, Christmas Island was captured.

ENDERBURY ISLAND

Red-footed Boobies and Greater Frigatebirds were both entering a new nesting cycle with both species on fresh eggs. Sooty Terns had established a large breeding colony on the north end of the island and were on freshly hatched chicks.

The full moon, shining through the entire night on three of the five nights spent on the island, greatly hindered banding operations and made banding of certain species difficult, if not impossible. Large numbers of Hermit Crabs in the Sooty Tern Colony and high daytime temperatures created such a heavy mortality among the young chicks that banding operations in the colony were terminated. The vast majority of Sooty Terns were captured by hand netting around the fringes of the colony during the early morning and late afternoon. Moonlight netting proved to be both slow and impractical.

Three recently killed birds whose breasts had been eaten were found during the five day stay. This suggests that at least one cat is still alive on this island although none has been seen during the past two visits.

One Red-footed Booby banded on Motu Upua, Christmas Island was captured.

CANTON ISLAND

This island was worked only during the daylight hours on February 17 because of the full moon. A large colony of Gray-backed Terns, estimated to contain 5,000 nests, was located on the island. Approximately 100 Sooty Tern nests were sprinkled about in the Gray-backed Tern colony.

A colony of Wedge-tailed Shearwaters, estimated to contain 100 burrows, was discovered and 13 adults and 1 nestling were banded. This constitutes a new project breeding and banding record for this island.

BANDING
ATF # 7 Feb. 1-21, 1965

	Howl	Bak	McK	Birn	Ender	Canton	Tot	Return	Recov
Wedge-t. Shearwater	-	-	77	5	-	14	96	29	-
Audubon's Shearwater	-	-	306	2	2	-	309	46	-
Bulwer's Petrel	-	-	9	-	-	-	9	-	-
Wh-thr. Storm Petrel	-	-	166	-	-	-	166	2	-
Red-t. Tropicbird	3	-	12	13	23	-	51	6	-
Blue-faced Booby	163	75	118	71	57	-	484	1010	10
Brown Booby	8	-	5	28	35	-	76	54	-
Red-footed Booby	2	-	6	-	369	-	377	252	3
Greater Frigatebird	10	-	20	-	293	-	323	17	3
Lesser Frigatebird	-	-	-	-	-	-	-	1	49
Sooty Tern	11866	-	7195	-	4351	28	23440	245	3
Gray-b. Tern	36	-	122	85	-	307	550	2	-
Common Noddy	3	35	400	382	-	-	820	11	2
Hawaiian Noddy Tern	-	-	59	22	15	-	96	3	-
Blue Gray Noddy Tern	-	-	17	1	-	-	18	2	-
Fairy Tern	-	-	100	34	-	-	134	17	-
Wandering Tattler	6	-	7	3	-	-	16	-	-
Bristle-th. Curlew	-	-	14	-	-	-	14	1	-
Golden Plover	2	-	3	1	-	-	6	-	-
Ruddy Turnstone	-	-	4	8	-	-	12	-	-
Fregata species	-	-	-	-	-	-	-	-	7
Totals	12099	110	8640	655	5144	349	26997	1698	77

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

Humphrey
Elu
Thompson
Gibbs
Amerson
Wirtz
Gould

1) Total Survey Unit: Fakaofo Atoll, Tokelau Islands, Pacific Ocean (2) Observer(s): ATF#7

3) YEAR: 1965 (4) MONTH: February (5) ~~DERXOOXXX

(19) Additional Information

All of our time was spenton the island of Matanga and the little islets near it. Palea Is. was where we camped. The vegetation of the islands is primarily coconuts but some remnants of Pisonia and smaller trees remain. The tall Pisonia was used by the Brown Boobies, Lesser Frigatebirds and Hawaiian Noddies for roosting. At the time of our stay, Fairy Terns were obviously breeding as were Hawaiian Noddies.

In addition to birds, mammals, plants, insects and fish were collected. Coconut crabs were also present on the islands.

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi Weekly Bird Summary Report

Humphrey
Ely
Thompson
Sibley
Amerson
Wirtz
Gould

1) Total Survey Unit: Nukunono Atoll, Tokelau Islands (2) Observer(s): ATF#7

3) YEAR: 1965 (4) MONTH: February-March (5) ~~PERIOD: 1-15 16-end of month~~ 28-2

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Collected (14)	(15) Age of Young 0-10 11-20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Black-naped Tern		40+						4				
Reef Heron		150+										
Pacific Pigeon		300+						1				
Golden Plover		220+										
Ruddy Turnstone		250+						1				
Wandering Tattler		50+										
Bristle-thighed Curlew		30+						1				
Red-tailed Tropicbird		1										
Brown Booby		30+										
Sooty Tern		50+						1				
Hawaiian Noddy		4000+		200+				7				
Common Noddy		1000+						4				
Lesser Frigatebird		50+										
Fairy Tern		1000+						3				

(19) Additional Information

This is the largest of all the atolls. We did all of our work on Fokclau Island in the atoll. The vegetation on this island was mainly coconut trees with remnant forest left consisting mainly of Pisonia and Pandanus. The Hawaiian Noddys were nesting in Pisonia trees.

In addition to birds, mammals, insects, fish and plants were collected.

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

Humphrey
Ely
Thompson
Sibley
Amerson
Wirtz
Gould

1) Total Survey Unit: Atafu Atoll, Tokelau Islands (2) Observer(s): ATF#7

3) YEAR: 1965 (4) MONTH: March (5) ~~PERIOD: 1-15 16-end of month~~ 3-4

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Collected (14) ~~Body~~ Cloaca	(15) Age of Young 0-10 11-20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Black-naped Tern		40+						8				
Reef Heron		40+						2				
Pacific Pigeon		75+						3				
Golden Plover		40 +										
Ruddy Turnstone		200+						3				
Wandering Tattler		90+						2				
Bristle-thighed Curlew		10+										
Brown Booby		10+						1				
Sooty Tern		5000+-	C					3				
Hawaiian Noddy		5000+						7				
Common Noddy		3000+						5				
Lesser Frigatebird		500+						3				
New Zealand Cuckoo		1						1				
Fairy Tern		500+						5				

(19) Additional Information

The main island we concentrated on in this atoll was Fenuloa Is. This atoll was much ~~xxxx~~ less cultivated than the other two atolls and contained more vegetation other than cocomuts than the other atolls. Pisonia was present and was used for nesting by Hawaiian Noddies and roosting by the Lesser Frigatebirds.

We also collected fish, plants, insects, mammals. Coconut crabs were present on the island.

SI-MNH-142
6-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

Humphrey
Ely
Thompson
Sibley
Amerson
Wirtz
Gould

1) Total Survey Unit: Jarvis Island (2) Observer(s): SIC #7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~1-15~~ 7-10 ~~16-end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Age of Young d-10 11-20 21+ Return	(16) Date Rec	(17) Young Banded	(18) Others Banded
Sooty Tern		50000	B									
Gray-backed Tern		75	B									
Wedge-tailed Shearwater		1										
Red-tailed Tropicbird		40	B	1	B		3	B	2		1	11
Blue-faced Booby		2500	B	11	B		2	B	501	1	16	489
Red-footed Booby		800	B	45	B		21	B	190	2	61	577
Brown Booby		500	B	69	B		34	B	62		18	241
Greater Frigatebird		400	B	87	B							
Lesser Frigatebird		300	B									
Wandering Tattler		8	B									
Golden Plover		25	B									

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

Humphrey
Ely
Thompson
Sibley
Amerson
Wirtz
Gould

1) Total Survey Unit: Christmas Is. (Isles Lagoon, Manula Lagoon) (2) Observer(s): SIC #7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~1-15 16-end of month~~ 12-14

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Returns ~~Age of Young 0-10 11-20 21+~~	(16) Date	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		500	B	U							3	84
Phoenix Island Petrel		1000	B	300							65	106
Audubon Shearwater		100	B	5							1	4
Christmas Is. Shearwater		200	B	30	B						8	33
White-throated Storm Petrel		30	B	10	B				1		6	6
Red-tailed Tropicbird		50	B	15	B						7	7
Blue-faced Booby		25										1
Brown Booby		25	B	3								
Greater Frigatebird		400	B	48								27
Red-footed Booby		300	B	U					4		5	45
Golden Plover		5000	C	Estimate for whole main island								
Wandering Tattler		300	C	"			"	"				
Bristle-thighed Curlew		1000	C	"			"	"				

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SMITHSONIAN INSTITUTION
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Humphrey
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Christmas Is. (Isles Lagoon, Manula Lagoon) (2) Observer(s): SIC #7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~1-15~~ 16-end of month 12-14

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Age of Young 0-10 11-20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Sooty Tern		300000	C				100000	C			213	187
Gray-backed Tern		1000	B	500	B						1	1
Common Noddy		200	B	8								
Hawaiian Noddy		10	B	2								
Blue-gray Noddy		400	B	55	B							2
Fairy Tern		20	B	2								
Crested Tern		1	B									
Christmas Is. Warbler		3	C									

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Humphrey
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Motu Tabu Island, Christmas Island (2) Observer(s): ATF # 7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~XXXX~~ 14 ~~1-15~~ ~~XXXXXXXXXXXXXXXX~~ 16-end of month

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) RETURNS Age of Young 6-10 11-20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Crested Tern	3	3	-	-	-	~~3~~	-	-	-	-	-	-
Sooty Tern	100	100	-	-	-	-	-	-	-	-	-	-
Gray-backed Tern		2	-	-	-	-	-	-	-	-	-	-
Blue Gray Noddy Tern		200	B	-	-	-	-	-	-	-	-	-
Common Noddy Tern		500	B	25	B	10	B	-	-	-	10	6
Hawaiian Noddy Tern		3000	B	15	B	3	B	-	-	-	1	-
Fairy Tern		100	B	10	B	-	-	-	-	-	-	-
Wedge-tailed Shearwater		1500	B	-	-	-	25	D	22	-	1	179
Christmas Is. Shearwater		800	B	150	B	-	100	B	20	-	13	88
Phoenix Is. Petrel		5000	B	1500	B	-	800	B	56	-	228	877
Red-tailed Tropicbird		12	B	-	-	-	4	B	-	-	4	-
Brown Booby		3	-	-	-	-	-	-	-	-	-	-
Red-footed Booby		2	-	-	-	-	-	-	-	-	-	-

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Humphrey
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Motu Tabu Island, Christmas Island (2) Observer(s): ATF # 7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: 14

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) RETURNS	(16) Date	(17) Young Banded	(18) Others Banded
Greater Frigatebird		5	A	-	-	-	-	-	-	-	-	2
Bristle-thighed Curlew		2	B	-	-	-	-	-	-	-	-	-
Golden Plover		12	B	-	-	-	-	-	-	-	-	-
Wandering Tattler		4	B	-	-	-	-	-	-	-	-	-

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

Humphrey
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Wirtz
Gould
Amerson

1) Total Survey Unit: Cook Island, Christmas Island (2) Observer(s): ATF # 7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~1-15~~ 13 ~~to end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	RETURNS (15) ~~Age of Young~~	(16) Date	(17) Young Banded	(18) Others Banded
Crested Tern		225	B	-	-	-	14	A	-	-	11	-
Sooty Tern		4000	B	-	-	-	200	B	1	-	-	41
Blue Gray Noddy Tern		250	B	-	-	-	1	B	-	-	1	4
Common Noddy Tern		800	B	30	B	-	8	B	-	-	-	15
Hawaiian Noddy Tern		8000	B	100	B	-	20	B	1 (2 recov)	-	9	46
Fairy Tern		800	B	100	B	-	50	B	5	-	7	74
Christmas Is. Shearwater		300	B	20	B	-	20	B	10	-	15	102
Phoenix Is. Petrel		100	B	-	-	-	1	B	1	-	1	27
White-thr. Storm Petrel		1	-	-	-	-	-	-	-	-	-	-
Red-tailed Tropicbird		20	B	-	-	-	-	-	-	-	-	-
Blue-faced Booby		1	-	-	-	-	-	-	-	-	-	-
Brown Booby		1	-	-	-	-	-	-	-	-	-	-
Red-footed Booby		23	A	-	-	-	-	-	-	-	-	1

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SMITHSONIAN INSTITUTION
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Humphrey
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Cook Island, Christmas Island (2) Observer(s): ATF # 7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~1-15~~ 13 ~~16-end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	RETURNS (15) Age of Young	(16) Date	(17) Young Banded	(18) Others Banded
Greater Frigatebird		15	A	-	-	-	-	-	-	-	-	6
Bristle-thighed Curlew		3	B	-	-	-	-	-	-	-	-	-
Golden Plover		3	B	-	-	-	-	-	-	-	-	-
Wandering Tattler		4	B	-	-	-	-	-	--	-	-	-

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Motu Upua, Christmas Island (2) Observer(s): ATF # 7 Amerson

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~1-15~~ 12 ~~16-end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	RETURNS (15) ~~Adults~~ ~~Young~~	(16) Date	(17) Young Banded	(18) Others Banded
Crested Tern		4	-	-	-	-	-	-	-	-	-	-
Sooty Tern		100	-	-	-	-	-	-	-	-	-	-
Gray-backed Tern		4	-	-	--	-	-	-	-	-	-	-
Blue Gray Noddy Tern		200	B	-	-	-	-	-	-	-	-	-
Common Noddy Tern		100	B	20	B	-	10	B	-	-	10	18
Hawaiian Noddy Tern		5000	B	-	-	-	1	D	-	-	-	38
Fairy Tern		150	B	30	B	-	-	-	-	-	-	-
Wedge-tailed Shearwater		700	B	-	-	-	15	E	17	-	-	109
Christmas Is. Shearwater		2000	B	300	B	-	150	C	62	-	23	187
Phoenix Is. Petrel		8000	B	1000	B	-	500	C	29	-	181	654
Red-tailed Tropicbird		10	B	-	-	-	2	B	-	-	2	-
Blue-faced Booby		1	-	-	-	-	-	--	-	-	-	-
Red-footed Booby		50	A	3	A	-	1	-	-	-	-	26

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Bi-Weekly Bird Summary Report

Humphrey
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Amerson

1) Total Survey Unit: Motu Upua Island, Christmas Island (2) Observer(s): ATF # 7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: 12

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) RETURNS 0 10 11 20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Greater Frigatebird		70	A	-	-	-	-	-	-	-	-	19
Lesser Frigatebird		1	H	-	-	-	-	-	-	-	-	-
Bristle-thighed Curlew		4	-	-	-	-	-	-	- m	-	-	-
Golden Plover		30	-	-	-	-	-	-	-	-	-	-
Wandering Tattler		15	-	-	-	-	-	-	-	-	-	-

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DIVISION OF BIRDS

Humphrey
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Palmyra Island (2) Observer(s): SIC #7

3) YEAR: 1965 (4) MONTH: March (5) PERIOD: ~~1-15~~ 16-18 ~~16-end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) ~~Rel.~~ Class	Returns (15) Age of Young ~~0-10 11-20 21+~~	(16) Date	(17) Young Banded	(18) Others Banded
Sooty Tern		1000000	B	500000	B		Just Hatching		1			5160
Common Noddy Tern		2000	C	U								
Hawaiian Noddy Tern		5000	C	2500	C							
Fairy Tern		200	B	U								
Brown Booby		500	B	U					1		3	20
Red-footed Booby		25000	C	U							5	269
Greater Frigatebird		100	B									
Bristle-thighed Curlew		100	B									
Golden Plover		200	B									
Ruddy Turnstone		6	B									
Wandering Tattler		100	B									
White-tailed Tropicbird		2	B									

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Bi-Weekly Bird Summary Report

Gould
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1) Total Survey Unit: McKean Island (2) Observer(s): ATF #7

3) YEAR: 1965 (4) MONTH: February (5) PERIOD: 6-7 ~~1-15 16 end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Return (14) ~~Rel. Class~~	Recovery Specimen (15) ~~Age of Young 0-10 11-20 21+~~	(16) ~~Date~~	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		500	B	?			?					82
Audubon's Shearwater		2000	B	?			?	45			1	302
Bulwer's Petrel		30+-	B				1				1	8
White-throated Storm Petrel		500	B					2				94
Red-tailed Tropicbird		16	A	4			3	2			3	9
Blue-faced Booby		1000	B	35			35	159	2		33	57
Brown Booby		30	B	4					2			5
Red-footed Booby		50	B	~~3~~ ~~4~~ 3				7	3		6	-
Sooty Tern		250000	C	80000	C		30000(C)	192	2			7095
Gray-backed Tern		2000	EC				1000	1		5	23	100
Common Noddy		5000	C	1000	C		1500(C)	5			356	44
Hawaiian Noddy		150	B				2	2			2	48
Bleu-gray Noddy		2500	C					2				17
Fairy Tern		500	B					10				97
Lesser Frigate		30000	C				10000(C)	49				-

(19) Additional Information

The most noteworthy observation on this island was the great number of ticks. Our camp was over run with them and a small collection was made. A large number of White-throated Storm Petrels were beginning to nest in the rock walls on the island.

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SMITHSONIAN INSTITUTION
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Bi-Weekly Bird Summary Re[illegible]

(1) Total Survey Unit: McKean Island (2) Observer(s): ATF#7

(3) YEAR: 1965 (4) MONTH: February (5) PERIOD: 6-7 ~~1-15 16 and following~~

(6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Returns (14) ~~Rel.~~ Class	Recoveries (15) ~~Age of Young~~ ~~9 10 11 20 21+~~	(16) Date	(17) Young Banded	(18) Others Banded
Greater Frigate		500	B	108	A		53		2			20
Bristle-thighed Curlew		42	A									14
Wandering Tattler		9	A									7
Golden Plover		48	A									3
Ruddy Turnstone		286	B									4
Frigate Species									7			

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

Gould

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(1) Total Survey Unit: Hull Island (2) Observer(s): ATF#7

(3) YEAR: 1965 (4) MONTH: February 9 (5) ~~PERIOD: 1-15 16 end of month~~

(6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Age of Young 0-10 11-20 21+	(16) Specimens ~~Note~~	(17) Young Banded	(18) Others Banded
Greater Frigate		26	C									
Sooty Tern		35000	D									
Common Noddy		15	C									
Fairy Tern		15	C									
Golden Plover		10	C							1		
Ruddy Turnstone		35	C							4		
Crested Tern		4	C									
Phoenix Island Petrel		1	A									

(19) Additional Information

We were not able to land at the Sooty Tern colony and had to land at the village site on the other end of the island. These observations all came from that area except for the Sooty Tern estimate which was taken off shore.

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SMITHSONIAN INSTITUTION
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Birnie Island (2) Observer(s): ATF#7

3) YEAR: 1965 (4) MONTH: February (5) PERIOD: 1-15 ~~xxxxxxxxx~~ 16-end of month 11-12

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Age of Young 0-10	11-20	21+	(16) Date	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		11	B									1		5
Audubon's Shearwater		4	B						1			1		2
Red-tailed Tropicbird		50	B	12	B		1	B	3					13
Blue-faced Booby		800	B	8	B		22	B	299	5			22	28
Brown Booby		75	B						18				6	16
Sooty Tern		1000	B											
Gray-backed Tern		2000	B	700	B		300	B						86
Common Noddy		2500	B						6					402
Hawaiian Noddy		[illegible]	B						1					20
Blue-gray Noddy		[illegible]	B											1
Fairy Tern		300	B	[illegible]	B				7				[illegible]	32
Crested Tern		[illegible]	B											
Greater Frigate		5	B											
Lesser Frigate		16	B											

Additional Information:

The rat population on Birnie Island was greatly reduced and very few were seen. This may account for the increase in population size of the Gray-backed Tern. Although no nests were found of the Blue-gray Noddy, the behavior of some birds indicated that they were breeding on the eastern edge of the island.

The Audubon's and Wedge-tailed Shearwater are possibly new records for the island.

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Bi-Weekly Bird Summary Report

1) Total Survey Unit: Birnie Island (2) Observer(s): ATE/7

11-12

3) YEAR: 1965 (4) MONTH: February (5) [illegible]

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Age of Young 0-10 11-20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Bristle-thighed Curlew		1	B									
Wandering Tattler		5	B									3
Ruddy Turnstone		24	B									8
Golden Plover		6	B									1

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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Enderbury Island (2) Observer(s): ATF#7

3) YEAR: 1965 (4) MONTH: February (5) ~~PERIOD: 1-15~~ 12-16 ~~16-end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Specimens Returns (14) Rel. Class	(15) ~~Age of Young~~	Recoveries (16) Date	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		1	B									
Audubon's Shearwater		4	B					1				2
Red-tailed Tropicbird		50+-	B	7					1			23
Blue-faced Booby		800	B	18			12		279	1	17	~~52~~ 40
Brown Booby		150+-	B	32			11		34		3	32
Red-footed Booby		1200	B	~~325~~330			150	4	248		74	295
Greater Frigatebird		6000	B	1310			21		2			293
Lesser Frigatebird		500										
Golden Plover		78										
Ruddy Turnstone		553										
Wandering Tattler		61										
Bristle-thighed Curlew		44										
Sanderling		6										

Additional Information:

During our 5 nite stay at Enderbury the moon was full. This prevented our doing to much banding at night. The Sooty Terns were for the most part nesting on the north end of the island past the guano heap. Two very small colonies were located on the south end of the island. A large circling flock w s present each night just behind the house. The Red-tailed Tropicbirds were beginning to look for nest sites and we found only 7 active nests.

For the most part the vegetation looked good. The Cordia was starting new growth and looked quite healthy. The Messerschmidtia on the eastside of the island was in bloom.

295 Greater Frigatebirds were marked with colored streamers (blue right, white left).

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SMITHSONIAN INSTITUTION
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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Enderbury Island (2) Observer(s): ATF#7

3) YEAR: 1965 (4) MONTH: February (5) ~~PERIOD: 1-15~~ 12-16 ~~end of month~~

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Specimens (14) ~~Rel.~~ Class ~~0-10 11-20 21+~~	Returns (15) ~~Age of Young~~	(16) ~~Date~~	Recoveries (17) Young Banded	(18) Others Banded
Sooty Tern		85000+-	B	?			?	2	10		2799	1552
Gray-backed Tern		500	B	a few								
Common Noddy		200	B	26			11					
Hawaiian Noddy		4000	B	15			1					1
Blue-gray Noddy		20+-	B									
Fairy Tern		5	B									

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Bi-Weekly Bird Summary Report

1) Total Survey Unit: Canton Island (2) Observer(s): ATF#7

3) YEAR: 1965 (4) MONTH: February (5) ~~PERIOD: 1-15 16-end of month~~ 17- 1200-1830

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	(14) Rel. Class	(15) Age of Young 0-10 11-20 21+	(16) Date	(17) Young Banded	(18) Others Banded
Wedge-tailed Shearwater		25+-	B				1		21+		261	13
Gray-backed Tern		10000+-	B	5000			100		0-10 21+		26	271
Sooty Tern		100+-	B	25+-			0				0	28
Hawaiian Noddy		2	B									
Common Noddy		2000+-	B									
FairyTern		4	C									
Golden Plover		100+-	B									
Ruddy Turnstone		100+-	B									
Wandering Tattler		50+-	B									
Blue-faced Booby		10+-	B									
Brown Booby		50+-	B									
Red-tailed Tropicbird		10+-	B									
Besser Frigate		10+-	B									

Progress Report
SIC No 7 - February 26 - March 18

The second half of the trip began on February 26 when the ship arrived at the first island in the Tokelau Group. The ship repaired the radar with parts shipped to Samoa so there was no need for navigation lights ashore during this half. As in the previous half, the ship provided excellent logistic support of the group.

The surf conditions were no problem except on Jarvis Island. On Jarvis waves 20-25' in height were coming into the landing, preventing our departing from this area. We loaded the raft and towed it through the inside of the reef to the east side to depart the island.

The Tokelau Islands were inhabited and the natives were helpful in showing us where the birds were concentrated. On Atafu some items of equipment were stolen from us. No birds were banded in the Tokelau Islands.

The numbers of birds were very low, especially Blue-faced Boobies on Jarvis Island where an estimated population of 2,500 birds were roosting. There was very little nesting activity in the Blue-faced Boobies on Jarvis. The highest nesting population encountered on this half of the cruise was the Sooty Terns on Palmyra Island where an estimated 1,000,000 birds were present on the runway. The young were just beginning to hatch out. This is the largest concentration of Sooty Terns observed on Palmyra by the SIC people.

As seems to be the case, when we hit the better islands we were confronted with a full moon making it extremely difficult to catch birds.

A total of 10,724 birds were banded during the second half of SIC No. 7 with an overall total for the entire cruise of 37,724 birds banded. We picked up 1,031 returns on the second half for a grand total of 2,729. Only five recoveries were made the second half for a trip total of 82. We took 275 samples of blood for a trip total of 750 samples. Six drums of fish were taken from the Tokelau Islands, as well as several specimens of reptiles and insects. A total of 180 bird and mammal specimens were taken, mostly from the Tokelau Islands, being the first such collections from this group.

Fakaofo Atoll

This is the most southern island in the Tokelau Group. The islands were mostly covered with coconut palms with remnant forest on a few isolated islands. A large number of Lesser Frigatebirds roosted here along with Hawaiian Noddies and a few Brown Boobies. A total of 30 bird specimens were taken all representing new species for the island. Some of the more unusual birds were the Pacific Fruit Pigeon, Reef Heron, and the Black-naped Tern. There were approximately 900 people on the main island. Two were assigned to help us out by the native chief. Fish were collected on the outer reef

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on the windward side and in the inner lagoon. Large chunks of coral were present in the lagoon. The natives said the coral had been deposited there by the hurricane in 1914. Mosquitos were present on the island as were coconut crabs.

Nukunono Atoll

The presence of a New Zealand catholic priest made our task easier on the island. He loaned us his boat and we borrowed a native boat and put our motors on them and traveled the 8 miles to Tokelau Island where we worked. The Pacific Fruit Pigeon was very common on the island as was the Reef Heron and Black-naped Tern. Two drums of fish were collected, one drum from the lagoon near Tokelau Island and the other drum from the channel at the village. The islanders had a party the last evening we were there for the ship's crew and the Smithsonian Party. Twenty-two specimens of birds were taken. Mosquitos were present. About 500 people inhabit the atoll.

Atafu Atoll

This is the smallest island in the Tokelau Islands and has about 200 inhabitants including a trained medical doctor. This island gave us the most trouble with natives and we lost some expendable gear plus a set of contact lens belonging to the Project leader. The usual birds found on the other two islands were also found here plus coconut crabs which we found on Fakaofo but not on Nukunono. We took 43 specimens of birds here including the usual birds found on the other islands plus the New Zealand Cuckoo, Eudynamis tahitiensis. The weather in the Tokelau Islands was nearly perfect with very little rain.

Jarvis Island

The beach on Jarvis had changed from the previous trip and we were confronted with a 3' rock wall when we landed instead of a sand beach. The surf was fairly high but little difficulty was encountered launching boats until the last two days when it was impossible with 20-25' waves pounding the shore. The day we departed, we loaded the raft and towed it around to the east shore on the reef. The tide was high or we would have had to pack the gear to the area. This channel was fairly smooth and full of sharks and would have only been used in an emergency for departure. Upon departing the raft was partially deflated and the motor submerged itself after running for approximately 1-1/2 minutes. The Navy had sent us another raft which threw us a tow line and took us to the ship in extremely heavy seas. The raft had the bottom knocked out of it and it was in a worthless state.

Birds were low in number on Jarvis. The Sooty Terns were in the air over the island but none were nesting. The Blue-faced Boobies were in short supply. A Wedge-tailed Shearwater was seen on the island and several observed in the

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evening flying offshore.

Christmas Island

The party was divided into two groups with the assistant project leader visiting the islands in the main lagoon and the Project leader visiting the main island and islands in the landlocked lagoons. An unusually large number of Bristle-thighed Curlews were noted on the main island and Audubon Shearwaters were noted breeding for the first time in Isles Lagoon. Six colonies of Sooty Terns were seen on the main island with large chicks, some nearly ready to fly. Large numbers of Phoenix Island Petrels were encountered on the islands in the main lagoon and many were banded. A few Christmas Island Warblers were noted singing at the airfield.

Palmyra Island

The most unusual thing here was the immense colony of Sooty Terns. As usual a full moon was shining. The runway was being utilized by these birds for nesting. There was evidence that at least two different groups were nesting, as some had chicks at least one week old while most were just beginning to hatch. One band return was picked up on a Sooty Tern. It had been banded April 1, 1964 last year. Had the moon been dark, we could have easily banded 15-20000 birds. Possibly the most noteworthy thing that happened here was the U. S. Navy eating fish from the reef and the result was six cases of Ichthyosarcotoxism. One of the men was affected worse than the others and was in a state of almost total paralysis for a period of 3-4 hours. As if little gremlins were plaguing them, they also had one man with a badly cut hand from a Surgeon fish and another who fell on the deck and slipped a disc in his back.

Banding SIC No 7 March 7-18, 1965

	Jarvis	Christmas	M. Tabu	Cook	M. Upua	Palmyra	Total	Returns	Recoveries
Wedge-tailed Shearwater	-	91	180	-	109	-	380	39	-
Christmas Island Shearwater	-	41	101	117	210	-	469	92	-
Audubon's Shearwater	-	5	-	-	-	-	5	-	-
Phoenix Island Petrel	-	171	1105	28	835	-	2139	76	-
White-throated Storm Petrel	-	12	-	-	-	-	12	1	-
Red-tailed Tropicbird	12	14	4	-	2	-	32	2	-
Blue-faced Booby	505	1	-	-	-	-	506	501	1
Brown Booby	259	-	-	-	-	23	282	63	-
Red-footed Booby	638	50	-	1	26	274	989	251	2
Great Frigatebird	-	27	2	6	19	-	54	-	-
Golden Plover	-	-	-	-	-	1	1	-	-
Sooty Tern	-	400	-	41	-	5160	5601	1	-
Gray-backed Tern	-	2	-	-	-	-	2	-	-
Noddy Tern	-	-	16	15	28	-	59	-	-
Hawaiian Noddy Tern	-	-	1	55	38	-	94	1	2
Blue-gray Noddy Tern	-	2	-	5	-	-	7	-	-
Fairy Tern	-	-	-	81	-	-	81	5	-
Crested Tern	-	-	-	11	-	-	11	-	-
Total	1414	816	1409	360	1267	5457	10724	1031	5
Total SIC No. 7							37721	2729	82

Humphrey
Sibley
Thompson

Baker Island Survey

ATF#7

February 3-4, 1965

Landing on this islandproved difficult and time consuming because of a shift in the normal wind direction. In the area where we normally encounter only one wave in landing, and the water ran 30 feet deep up to the shoreline, the waves had completely altered the contours of the shoreline and had swept the beach back so that many rocks were exposed. The surf ran 6-7 feet with no calm periods along the entire length of the normally calm west shore. One entire afternoon was spent in making six attempts to launch the raft back to the ship. It was finally necessary to haul raft, motor and gear 800 yards across the island to the south shore in order to make a successful launching. Departure from the island had to be made from the south shore after hauling all camp gear and equipment 1/4 mile across the island.

The surf along the south shore was breaking sharply along the shoreline when the departures were made. This, coupled with inexperienced crews, resulted in the complete wipeout of the second load of gear and personnel. The raft was launched directly into a 9 foot wave just as it broke about 15 feet from shore. This wave upended the raft and it fell back upside down. Several items of gear, including a Polaroid camera, were lost due to the strong undertow. There were no injuries to personnel.

SPECIES ACCOUNTS

Blue-faced Booby. Sixteen nests with eggs and 2 nestlings. Two small clubs formed along the south shore on the first evening and consolidated into one club on the second. A total of 200 birds are using the island for roosting. Seventy-five birds (including the 2 nestlings) were banded and 94 returns were obtained.

Red-tailed Tropicbird. None observed during our stay.

Brown Booby. Eight birds roosting with the Blue-faced Boobies.

Sooty Tern. A small groups flying over and around the island, day andnight. None observed on the ground.

Gray-backed Tern. A small colony of 12 birds nesting inland on the southeast end of the island near several old wrecked planes. Two eggs were found. Formerly no nests were found outside of the lagoon

area.

Common Noddy. The small island in the lagoon contained 377 nests (35 with nestlings, 342 with eggs). The population was estimated at 800. No nests were found outside the lagoon area.

Fairy Tern. None observed.

Greater Frigatebird. Nine immatures and females over and around the island with the Sooty Tern flocks. None observed roosting.

Red-footed Booby. None observed.

Bristle-thighed Curlew. 2.

Wandering Tattler. 10.

Ruddy Turnstone. 113.

Golden Plover. 7.

The vegetation is in poor condition on Baker. Mimosa, Sida and the three grass species (Sandburr, Bermuda and Foxtail) have all been badly burned back by the lack of rain. Only Portulaca, Boerhaavia and Tribulus are green and healthy in appearance. Lepturus and Digitaria both are predominantly brown with only a few new leaves.

Mice are becoming increasingly abundant on the island. In an hour or so during the day, one person can capture 8-10 mice by hand without much exertion. At night the mice are common throughout the island.

Other Details: The party arrived at Baker Island at 1130 on February3. An extremely high suff made landings and departures extremely hazardous. Landings were finally made on the south side of the island after several attempts to use the west side. On departure the second boat load was creamed and the Polaroid Camera was apparently lost when the gear was thrown out. Other gear was recovered some of it a mile-at-sea. The accident can be attributed to inexperience on the part of the boat crew as the surf was not that bad.

Blue-faced Boobies were present in two clubs on the south side of the island. Two nights were spent banding these birds and 30 blood samples were taken. A few scattered nests were found.

Sooty Terns were seen over the island in small numbers in the daytime and heard in small numbers at night.

Gray-backed Terns were nesting in an area on the southside of the island about 1/2 mile from the westside. A total of 12 birds were seen in the daytime but only 2 nests were found. This is the first nesting away from the lagoon area island for any specids except the Blue-faced Booby or Red-tailed Tropicbird.

Common Noddies were nesting in full force on the little island on the eastside of the island. At night the birds were packed into the island in great numbers roosting and the island was filled to capacity. Attempts were made to band them but they sppoked and flew before banding could be accomplished.

SI-MNH-142
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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

Gould

Humphrey
Ely
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Amerson
Gould

Bi-Weekly Bird Summary Report

1) Total Survey Unit: Baker Island (2) Observer(s): ATF #7

3) YEAR: 1965 (4) MONTH: February (5) PERIOD: ~~1-15 16 end of month~~ February 3-4

6) Species	(7) Date	(8) Number	(9) Rel. Class	(10) No. of Nests	(11) Rel. Class	(12) Date	(13) No. of Young	Returns (14) ~~Rel. Class~~	Recoveries (15) ~~Age of Young 0-10 11-20 21+~~	(16) Date	(17) Young Banded	(18) Others Banded
Blue-faced Booby		200		14			2	94			2	73
Brown Booby		8										
Greater Frigate		9										
Sooty Tern		100										
Gray-backed Tern		25		2								
Common Noddy		800+		342			35		2		35	
Wandering Tattler		10										
Bristle-thighed Curlew		2										
Golden Plover		7										
Ruddy Turnstone		113										

BAKER ISLAND

Latitude 0° 12' N

Long. 176° 29' W

LEGEND

12.8 spot elevation

roads

foot path

sand

SCALE

200 100 0 200 400 600 800

contour interval 2 feet

Pits
Pit
Ditch
Ammunition Dump
Cemetery
Trenches
Foundation
Foundations
Trench
Lighthouse
Astro. Mon.
Abandoned Equipment
Steel Matting
Steel Matting Runway
Abandoned Quonset Hut
Earth Dike
Junk
Lagoon

Common Noddy nests

Blue-f. Booby Nests

Blue-faced Booby Club

Gray-backed Terns

True North

Magnetic North

PRELIMINARY REPORT ON

SIC TRIP No. 7

January-March
1965

Prepared at the

DIVISION OF BIRDS

SMITHSONIAN INSTITUTION

WASHINGTON 25, D.C.

May 1965

Max C. Thompson

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DATE		ISLAND	ARRIVAL	DEPARTURE
January	25	Pearl Harbor		2000Z
February	1	Howland	2000Z	03-2100Z
February	3	Baker	2330Z	05-2030Z
February	6	McKean	2029Z	09-0025Z
February	9	Hull	1905Z	10-0600Z
February	10	Birnie	1930Z	12-1930Z
February	12	Enderbury	2245Z	17-1900Z
February	17	Canton	2221Z	18-1900Z
February	21	Pago Pago	2000Z	25-2000Z
February	26	Fakaofo	2100Z	28-1935Z
February	28	Nukunono	2235Z	03-1730Z
March	3	Atafu	2140Z	05-0001Z
March	8	Jarvis	0250Z	11-2130Z
March	12	Christmas	1900Z	15-2000Z
March	17	Palmyra	0030Z	19-2000Z
March	22	Pearl Harbor	2315Z	

Preliminary Report, SIC No. 7

Introduction

The seventh trip to the Equatorial Islands was made during the period January 25-March 22, 1965. Smithsonian personnel were Max C. Thompson (Leader), C. Douglas Hackman (Assistant Leader), Ralph Kirkpatrick, Richard Merrill, Paul Woodward and Lawrence N. Huber. G. A. Samuelson, Bernice P. Bishop Museum under the auspices of the PMU 6, accompanied the Smithsonian party on the latter half of the trip.

The expected mid-winter slump in breeding birds, especially the Sulidae, was encountered. On Howland Island, a large colony of Sooty Terns was beginning to nest near the Amelia Earhart lighthouse, a new breeding area since the POBS has been underway. Palmyra Island was supporting a large breeding population of Sooty Terns, estimated to be near 1,000,000 birds.

There was little indication that the drought had been broken since the last cruise. Howland Island did have new growth of vegetation on it but the rest of the islands we visited in the Phoenix group showed little sign of having had recent rains. The Line Islands were also in a dry state although Christmas had had 18 inches of rain quite recently. Jarvis Island had rain during our stay but showed no signs of earlier moisture.

In addition to the usual islands visited by other SIC trips, the Tokelau Islands were visited by the group for the first time. This is the first trip to this group of islands to make extensive natural history collections. Collections of birds, mammals, fishes, insects, plants and ectoparasites were made on the islands.

The following is a resume of work done on the SIC No. 7 trip:

37,721 birds banded, 2,728 returns, 75 recoveries, 650 blood samples,

146 bird specimens, 24 mammals. Additional collections from the Tokelau Islands were mentioned previously.

As in SIC report number 6, it doesn't seem worthwhile to make a full report on each of the regularly visited islands since these data are available in field notes and progress reports. Little change in species composition was noted on the regularly visited islands.

Tokelau Islands

The Tokelau Islands lie between 8° to 10° South latitude and 170° to 173° West longitude. The group is composed of three atolls each with many small islets. Swain's Island to the south of the group is included by some geographers within this group, but is not so considered here. The three atolls are inhabited by about 1,700 people, Fakaofo Atoll being the most densely populated.

The islands are in the belt of high rainfall, most of which falls between December and March. Atafu, the most northerly island in the group, averages 114.7 inches of rain a year. Occasional hurricanes pass through the area, the worst having devastated the islands on January 7, 1914. Most of the weather observations have been made on Atafu and it can be considered to be representative of the whole group. The wettest twelve-month period was from November 1929 to October 1930 when Atafu received 177.91 inches of rain. The driest twelve-month period was from May 1933 through the following April when only 58.33 inches of rain fell. The mean temperature is 82.5° F., with little variation. During our stay on the islands, we had very little rainfall, mostly in the form of light showers.

Vegetation

The atolls are low and except for small patches of remnant forest are planted to coconuts. The native vegetation was typical of wet equatorial atolls and will be discussed in a later report by Robert Long.

Fish

Fish were collected at all three islands. We tried to sample both the inner lagoon and the outer reef on all islands. A total of six drums was collected and will be reported upon in a later report.

Ichthyosarcotoxism (fish poisioning) is not uncommon in the islands. Certain areas are known by the natives to produce toxic fish and are avoided. One such area was the outer reef near Tokelau Island on Nukunonu Atoll. Nukunonu Atoll recently had 60 people come down with fish poisoning but all recovered.

Mammals

There were rats infesting all of the Tokelau Islands. The specimens taken proved to be Rattus exulans. No mice or European rats were taken or observed. The natives had a few pigs (presumably Sus scrofa) on the island but we were unable to obtain skulls for positive identification to species. A few cats were seen on the islands but probably do not contribute much to the small size of the bird population.

Birds

The birds of the Tokelau Islands are little known. Several expeditions have stopped there but no one seems to have collected extensively in the area. Ramsay (Proc. Linn. Soc NSW, 2:139) mentions specimens of Procelsterna cerulea, as being present in a collection of birds taken by Rev. S. J. Whitmee. The present whereabouts of these specimens is not presently known to me. Mayr (Birds of the Southwest Pacific, 1945:44) mentions the presence of Crocethia alba and Sterna sumatrana on the "Union Group" but gives no references as to where he found his evidence. Munro (Elepaio, 1941:3) lists Anous stolidus as

a breeding bird of the Tokelau Islands from his visit in 1938. He mentions no other records.

The above references are the only mention of birds in the literature that we have found to date.

On SIC No. 7, we collected 96 specimens of 14 species. This is an increase of 11 species above what has previously been reported. An annotated list follows:

Sula leucogaster. Brown Booby.

Specimens--2. Fakaofo: ♂ testes minute, 110.2 gms., moderate fat, immature. Atafu: ♂ testes 12 x 4 mm., 1033 gms., heavy fat.

Uncommon on all of the islands. We saw six coming in to roost in the Pisonia trees at Fakaofo on February 26. Two were observed in the evening on Nukononu on February 28 and three on March 1. Three immatures were seen at Atafu on March 3 along with five adults.

Demigretta sacra. Reef Heron.

Specimens--4. Fakaofo: ♀ largest ovum 6 mm., 4 collapsed follicles, old brood patch, 459.4 gms., light fat; ♀ ovary granular, 503 gms., little fat; ♂ testis 15 x 9 mm., 565.4 gms., no fat. Atafu: ♀ largest ovum 15 mm., 508.2 gms., light fat; ♀ ova minute, 403 gms.

Common on all islands in the group. We observed both white, intermediate and dark phase birds.

Fregata ariel. Lesser Frigatebird.

Specimens--8. Fakaofo: ♂ testis 17 x 8 mm., 697.4 gms., heavy fat; ♂ testis 12 x 9 mm., 830 gms., heavy fat; ♂ testis 10 x 4 mm., 725.6 gmx., heavy fat; ♂ testis 14 x 7 mm., 711.6 gms., ♂ testis 11 x 7 mm., 700.4 gms., medium fat. Atafu: ♂ testis 11 x 5 mm., 739.7 gms., heavy fat; ♂ testis 12 x 7 mm., 834.3 gms., heavy fat; ♂ testis 15 x 8 mm., 802.0 gms.

The only frigatebird observed in the Tokelau Islands. On Matanga Island on Fakaofo Atoll we observed a roosting flock of approximately 450 in a grove of Pisonia trees. On Nukunonu Atoll we saw no roosting flocks but birds were observed headed in a northerly direction at a high altitude each evening. At Atafu Atoll on Fenualoa Island, there was an estimated 500 roosting in a grove of Pisonia.

Phaethon rubricauda. Red-tailed Tropicbird.

The only record of ours was provided by Douglas Hackman on Nukunonu Atoll on March 1 where he saw a bird flying overhead. The nun on the island had in her possession several tail feathers that had been picked up, indicating that it is probably a frequent visitor.

Phaethon lepturus. White-tailed Tropicbird.

Paul Woodward saw this tropicbird flying overhead on Fakaofo Atoll on February 27. We have no other records.

Duck sp.

Although we saw no ducks during our stay, Father Goldfinch, the Catholic priest on the island of Nukunonu, said that nearly every year in the months of February and March a few ducks do come to the island. The nun there identified them as Gray Ducks, Anas superciliosa. We were unable to verify her identification of the species.

Pluvialis dominica. Golden Plover.

Specimens--3. Fakaofo: ♂ testis 9 x 6 mm., 118.0 gms., ♀ ovary minute, 137.5 gms., heavy fat. Nukunonu: ♂ ovary granular, 124 gms.

Common bird on all the atolls. The birds were beginning the prenuptial molt.

Arenaria interpres. Ruddy Turnstone.

Specimens--11. Fakaofo: ♀ ovary minute, 134.9 gms., heavy fat; ♂ testis minute, 124.4 gms., heavy fat; ♂ testis minute 135.8 gms., heavy fat; ♀ ovary minute, 99.3 gms., heavy fat; ♂ testis minute, 108.9 gms., heavy fat; ♂ testis minute, 108.6 gms., heavy fat; ♀ ovary minute, 119.6 gms, heavy fat. Nukunono: ♀ ovary granular, approximately 66 gms., Atafu: ♀ ovary granular, 141.9 gms., ♂ testis 2 x 1 mm., 107.3 gms., heavy fat; ♀ ovary granular, 112 gms.

Common on all of the atolls. The one bird taken on Nukunono Atoll was exceedingly thin which may indicate that the bird was starving or had just completed a long over-water flight. Many of the birds were in heavy molt, others showing little sign of molt.

Crocethia alba. Sanderling.

Observed once on Fakaofo Atoll by Lawrence N. Huber. This species has been previously reported by Mayr in his book (op. cit.).

Numenius tahitiensis. Bristle-thighed Curlew.

Specimens--2. Fakaofo: ♀ ovary granular, 580 gms., extremely heavy fat. Nukunono: ♀ largest ovum 2 mm., 615.7 gms., heavy fat.

Uncommon on the islands although it is present on each one. An estimate of 35 was made for the three atolls. The birds were in heavy molt, the primaries on one specimen just completing the emergence from the sheath.

Heteroscelus incanum. Wandering Tattler.

Specimens--4 Fakaofo: ♂ testis 1 x 2 mm., 83 gms., little fat; ♂ testis 2 x 1 mm., 114 gms., medium fat. Atafu: ♂ testis 2 x 1 mm., 123. gms., heavy fat; ♂ testis 3 x 2 mm., 130. gms., heavy fat.

Common on the reef edges on all of the atolls.

Anous minutus. Hawaiian Noddy Tern.

Specimens--16 Fakaofo: ♂ testis 10 x 5 mm., 120.2 gms., light fat; ♂ testis 4 x 3 mm., 122 gms., little fat. Nukunono: ♀ largest ovum 2 mm., 123 gms., little fat; ♂ testis 7 x 6 mm., 98.7 gms., medium fat; ♀ ovary granular, 140.4 gms., little fat; ♂ testis 10 x 7 mm., 125.2 gms., medium fat, ♀ largest ovum 1 mm., 1 mm., 121.1 gms., ♂ testis 8 x 5 mm., 121.8 gms., medium fat; ♂ testis 13 x 7 mm., 127.5 gms, Atafu: ♂ testis 1 mm., 111.8 gms., heavy fat; ♂ testis 1 mm., 108.8 gms., medium fat; ♀ largest ovum 5 mm., 106 gms., medium fat; ♀ largest ovum 2 mm., 110.0 gms., light fat, oviduct greatly enlarged; ♂ testis 10 x 5 mm., 105 gms., medium fat; ♂ testis 8 x 5 mm., 105 gms., light fat; ♀ ovary grnular, 134.2 gms.

The most common breeding bird in the Tokelau Islands. Although no actual nests were found on Fakaofo, several birds were observed catching fish and carrying them inland. On Nukunono we found a nesting colony on Tokelau Island. They were situated on the north end of the island and numbered about 150 pairs. The nest sites were in a Pisonia tree estimated to be 60 feet high. We were unable to tell if there were young or eggs. Many birds on Atafu were constructing nests. This island had the highest population which was estimated at 5,000 birds. On the island of Atafu, the native people recovered one of our banded birds. The bird had been banded on Cook Island, Christmas Atoll. One other band was found on Nukunono Atoll but the priest was not sure that he had sent it in as intended and could not find it.

Anous stolidus. Common Noddy Tern.

Specimens--10 Fakaofo: ♂ testis 9 x 5 mm., 192 gms., no fat. Nukunono: ♀ largest ovum 3 mm., 173.4 gms., light fat; ♀ largest ovum 4 mm., 181.8 gms., light fat, old brood patch; ♀ testis 4 x 3 mm., 214.1 gms., medium fat; ♀ 1 enlarged ovum, 202.2 gms., heavy fat. Atafu: ♀ ovary granular, 166.7 gms., medium fat; ♀ ovary minute, 185.2 gms., medium fat; ♂ testis 10 x 5 mm.,

219.1 gms., heavy fat; ♂ testis 6 x 2 mm., 184 gms., light fat; ♀ ovum 2mm., 176 gms., medium fat.

Small numbers of this species roosted on Fakaofo and Nukunono Atolls. These populations were estimated at 200+ for each island. There is some indication from the specimens' gonads that the species probably nested on the two atolls although no conclusive data were obtained. Munro (op. cit.) states they were breeding on the Tokelau Islands in 1938. On Atafu Atoll there was a very large population, estimated to be around 3,000 birds. These birds gave evidence of breeding also. On Atafu, large flocks were roosting on the edges of the reef on the leeward shore. It is presumed that these birds were nesting in the same area as other Pacific Islands, namely in the palm trees.

Procelsterna cerulea. Blue-gray Noddy.

This species was not observed by us on the islands but is reported by Ramsay (op. cit.)

Sterna sumatrana. Black-naped Tern.

Specimens--15. Fakaofo: ♂ testis 4 x 4 mm., 101 gms., little fat; ♀ largest ovum 2 mm., 99 gms., little fat; ♀ ovary granular, little fat, 98 gms., Nukunono: ♂ testis 4 x 3 mm. 103 gms., medium fat; ♂ testis 6 x 4 mm., 96 gms., sex? immature, 96 gms., ♀ largest ovum 1 mm., 92 gms., Atafu: ♀ largest ovum 4 mm., oviduct enlarged, 95.5 gms.; sex? immature, 109.4 gms., heavy fat; ♂ testis 7 x 5 mm., 112.3 gms., medium fat; ♂ testis 8 x 6 mm., 99.7 gms., medium fat; ♀ ovary granular, 110.4 gms., medium fat; ♂ testis 6 x 7 mm., 97.8 gms., light fat; ♂ testis small, 112.4 gms., heavy fat; ♀ immature, 106.2 gms., heavy fat.

Common species in the Tokelau Islands. Indications from gonads and flying young were that the breeding season had just ended. This species had been reported previously from the Tokelau Islands by Mayr (op. cit.).

Sterna fuscata. Sooty Tern.

Specimens--5. Fakaofo: ♂ testis 11 x 6 mm., 194 gms., Nukunono: ♀ largest ovum 8 mm., 196.8 gms., heavy fat. Atafu: sex?, 199.8 gms., ♂ testis 10 x 5 mm., 198 gms., medium fat; ♂ testis 13 x 6 mm., 194.5 gms.

Uncommon around Fakaofo and Nukunono Atolls but common at Atafu. The natives say that the bird nests on Fakaofo and Atafu but there seemed little habitat. However, a specimen taken on Nukunono showed evidence of coming into breeding condition and there was a group of several thousand birds near Atafu. The natives, using long nets and live birds for decoys, capture up to sixty per day from their canoes.

Gygis alba. Fairy Tern.

Specimens--12. Fakaofo: ♀ ovary granular, 99 gms.; ♀ ovary granular, 112 gms., no fat; ♀ largest ovum 2 mm., 118 gms., no fat; ♀ no data. Nukunono: ♀ ovary granular, 108.5 gms., no fat; ♂ testis 7 x 5 mm., 126.8 gms., medium fat; ♀ largest ovum 2 mm., 102.9 gms., little fat. Atafu: ♀ 1 collapsed follice, brood patch, 125.6 gms., moderate fat; ♂ testis small, 101 gms., heavy fat; ♂ testis 5 x 4 mm., 112 gms., medium fat.

Common breeding bird in the Tokelau Islands. On Fakaofo we observed 500+ in a feeding flock over the ocean along the east shore of the atoll. On Nukunono we estimated the population to be in excess of 1,000 birds. The population on Atafu was 500+. Several nests and young birds were seen on all of the islands.

Ducula pacifica. Pacific Fruit Pigeon.

Specimens--5. Fakaofo: ♀ largest ovum 3 mm., 369.8 gms. Nukunono: ♂ testis 14 x 7 mm., heavy fat, 457.2 gms.; Atafu: sex?, 351.1 gms.; sex?, 210.8 gms.; sex?, 392.8 gms.

Common species on all of the Tokelau Islands. One of the specimens taken on Fakaofo was producing pigeon milk indicating the bird had young. This bird also had a stomach full of Ficus fruit, and caterpillers. This is the farthest north extension of this species range in the Central Pacific.

Eudynamis taitensis. New Zealand Cuckoo.

Specimens--1. Atafu: ♂ testis minute, 124.6 gms., light fat, heavy molt.

Apparently a regular migrant to the Tokelau Islands as the natives know it well. The specimen taken was the only record during our week's stay on the islands.

TABLE I

Blood Samples SIC No. 7

Jan-Mar. 1965

Islands	Wedge-tailed Shearwater	Audubon's Shearwater	Christmas Is. Shearwater	Phoenix Is. Petrel	Red-footed Booby	Blue-faced Booby	Lesser Frigatebird	Greater Frigatebird	Sooty Tern	Common Noddy	TOTAL
Howland						10		10	80		100
Baker						30					30
McKean		10				30		20	20	20	100
Birnie						30					30
Enderbury					25	25		25	50		125
Jarvis					20	30	25	20			95
Christmas	50		30	30							110
Palmyra					30				30		60
Total	50	10	30	30	75	155	25	75	180	20	650

TABLE 2

Birds Collected SIC 7

Jan-Mar. 1965

	Howland	Baker	McKean	Hull	Birnie	Enderbury	Canton	Samoa	Fakaofo	Nukunono	Atafu	Jarvis	Christmas	Palmyra	At-Sea
Wedge-tailed Shearwater					1								1		1
Audubon's Shearwater					1	1									
White-throated Petrel			3												
White-tailed Tropicbird															1
Blue-faced Booby	1														
Red-footed Booby						4									
Lesser Frigatebird									5		3				
Golden Plover				1				1	2						
Ruddy Turnstone				4					7	1	3				
Wandering Tattler									1		2				
Bristle-thighed Curlew									1	1					
Sooty Tern	8					2			1	1	3			4	1
Gray-backed Tern			5												
Common Noddy			4						1	4	5				
Hawaiian Noddy									2	7	7				
Fairy Tern									4	3	5				
Blue-gray Noddy								5							
New Zealand Cuckoo											1				
Reef Heron								1	2		2				
Brown Booby									1		1				
Black-naped Tern									3	4	8				
Pacific Fruit Pigeon									1	1	3				

TABLE 3

Birds Banded SIC 7

Jan-Mar 1965

	Howland	Baker	McKean	Birnie	Enderbury	Canton	Jarvis	Christmas	Palmyra Atoll	Totals
Wedge-tailed Shearwater	0	0	77	5	0	14	0	380	0	476
Christmas Is. Shearwater	0	0	0	0	0	0	0	469	0	469
Audubon's Shearwater	0	0	306	2	1	0	0	5	0	314
Phoenix Island Petrel	0	0	0	0	0	0	0	2139	0	2139
Bulwer's Petrel	0	0	9	0	0	0	0	0	0	9
White-throated Storm Petrel	0	0	166	0	0	0	0	12	0	178
Red-tailed Tropicbird	3	0	12	13	23	0	12	20	0	83
Blue-faced Booby	163	75	118	71	57	0	505	1	0	990
Brown Booby	8	0	5	28	35	0	259	0	23	358
Red-footed Booby	2	0	6	0	369	0	638	77	274	1366
Great Frigatebird	10	0	20	0	293	0	0	54	0	377
Bristle-thighed Curlew	0	0	14	0	0	0	0	0	0	14
Golden Plover	2	0	3	1	0	0	0	0	1	7
Ruddy Turnstone	0	0	4	8	0	0	0	0	0	12
Wandering Tattler	6	0	7	3	0	0	0	0	0	16
Sooty Tern	11866	0	7195	0	4351	28	0	441	5160	29041
Gray-backed Tern	36	0	122	85	0	307	0	2	0	552
Noody Tern	3	35	400	382	0	0	0	59	0	879
Hawaiian Noddy Tern	0	0	59	22	15	0	0	94	0	190
Blue-gray Noddy Tern	0	0	17	1	0	0	0	7	0	25
Fairy Tern	0	0	100	34	0	0	0	81	0	215
Crested Tern	0	0	0	0	0	0	0	11	0	11
										37721

Addenda

Since the writing of this report, I have received a letter from the American Museum of Natural History saying there are 67 bird specimens in the Museum collected on Fakaofo Atoll 2-5 April 1924 by the Whitney South Seas Expedition. This list contains the following birds:

a)	Demigretta sacra	2 ♂, 3 ♀
b)	Pluvialis dominica	9 ♂, 3 ♀
c)	Heteroscelus incanum	1 ♂, 4 ♀
d)	Arenaria interpres	2 ♂, 6 ♀
e)	Sterna sumatrana	1 ♂, 1 ♀
f)	Anous minutus	4 ♂, 10 ♀
g)	Anous stolidus	4 ♂, 7 ♀ 1 ?
h)	Crocethia alba	1 ♂, 1 ♀
i)	Ducula pacifica	3 ♀
j)	Eudynamus taitensis	3 ♂, 1 ♀ ?

DATE 25 JANUARY 1965

Time at sunrise = — Position at sunrise = —

Time at sunset = 1800 Position at sunset = 20-15 N 158-30

~~Miles traveled from 0000 hours to sunrise~~ = ———

Miles traveled from ~~sunrise~~ 1200 to sunset = 65 MILES

Miles traveled from sunset to 2400 hours = 105 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1200	VISUAL	158-04 W	20-58 N
2.	1600	DR	159-08 W	19-29 N
3.	2000	CELESTIAL		
4.	———			
5.	———			
6.	———			

DATE 26 JANUARY 1965

Time at sunrise = 0630 Position at sunrise = 18-05 N 160-20 W

Time at sunset = 1740 Position at sunset = 16-30 N 162-15 W

Miles traveled from 0000 hours to sunrise = 45 MILES

Miles traveled from sunrise to sunset = 140 MILES

Miles traveled from sunset to 2400 hours = 75 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	160-22 W	17-59 N
2.	1200	"	160-54 W	17-28 N
3.	1600	DR		
4.	2000	CELESTIAL	162-36 W	16-13 N
5.				
6.				

DATE 27 JANUARY 1965

Time at sunrise = 0624 Position at sunrise = 15-20 N 163-15 W

Time at sunset = 1755 Position at sunset = 13-45 N 164-50 W

Miles traveled from 0000 hours to sunrise = 55 MILES

Miles traveled from sunrise to sunset = 140 MILES

Miles traveled from sunset to 2400 hours = 90 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	163-22 W	15-13 N
2.	1200	"	163-56 W	14-17 N
3.	1600	DR		
4.	2000	CELESTIAL	164-55 W	13-06 N
5.				
6.				

DATE ~~25 JAN 1965~~

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.				
2.				
3.				
4.				
5.				
6.				

DATE 28 JAN 1965

Time at sunrise = 0630 Position at sunrise = 12-05 N 166-10 W

Time at sunset = 1813 Position at sunset = 10-50 N 167-25 W

Miles traveled from 0000 hours to sunrise = 65 MILES

Miles traveled from sunrise to sunset = 105 MILES

Miles traveled from sunset to 2400 hours = 44 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	166-11W	12-04 N
2.	1200	CELESTIAL	166-40W	11-32N
3.	1600	DR	167-10W	11-05N
4.	2000	CELESTIAL	167-35W	10-23N
5.				
6.				

DATE 29 JAN 1965

Time at sunrise = 0633 Position at sunrise = 09-47N 168-20W

Time at sunset = 1828 Position at sunset = 08-15N 169-45

Miles traveled from 0000 hours to sunrise = 40 MILES

Miles traveled from sunrise to sunset = 130 MILES

Miles traveled from sunset to 2400 hours = 65 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	CELESTIAL	168-35W	10-23N
2.	1200	"	169-04W	09-06N
3.	1600	DR	169-35W	08-28N
4.	2000	CELESTIAL	170-05W	08-03N
5.				
6.				

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ATF-7

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: 25 Jan 1965 Total Minutes: 471 Total Miles _____

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
32	113	3.2	

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
6	-	-	-	6	-	-	-	1	-	-	-				

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
2	-	2	2	-	2	1	-	1			

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
12	75	6.25	

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
None			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
4	-	2	2	18	-	10	8	4.5	-	5	4				

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
NONE			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
6	83		0	0	0

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DATE 9/25/65

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700															
0800															
0900															
1000	14 18		BKN	10		84			8		—	86	10	090	000° 13.3 KTS.
1100	14 06		BKN	10		84			8		—	86	10	090	000° " "
1200	055		BKN	10		87			8		060	86	10	070	000° " "
1300	13 42	706	BKN	10		84			8		060	86	10	070	000° " "
1400	13 29		BKN	10		87			8		060	86	10	025	000° 15 KTS
1500	16		BKN	10		87			6		060	86	10	070	000° 15 KTS
1600	03		BKN	10		87			8		060	88	13	115	000° 13.3 KTS
1700	12 50		BKN	10		87			8		060	89	13	115	000° 13.3 KTS
1800	37		BKN	10		85			9		060	88	11	120	000° 13.3 KTS
1900	24		BKN	10		84			8		060	88	11	120	000° 13.3 KTS
2000	11/11	707	BKN	10		84			7		060	87	12	115	000 13.3 KTS
2100			BKN	10		84			7		060	87	12	115	000 13.3 KTS
2200			SCT	10		82			5		060	87	12	090	000 13.3 KTS
2300			SCT	10		82			5		060	87	12	090	000 13.3 KTS
2400			SCT	10		82			5		060	87	12	090	000 13.3 KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

6.3
13
189
63
819

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 25 JAN 65

TIME	LAT	LONG	PRES WEA	VIS	~~SEA~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700															
0800															
0900															
1000															
1100															
1200	20-58.5	158.04	SCT	10		80			3		3FT	80	15.5 KTS	000	190 13.3 KTS
1300	20-46.8	158-07	SCT	10		80			3		4FT	80	16. KTS	010	190 13.3 KTS
1400	20-32.8	158-05.5	SCT	10		79			3		4FT	80	16 KTS	018	140 13.3 KTS
1500	29	12	SCT	10		79			4		4FT		10 KTS	199	222 13.3 KTS
1600	12	16	SCT	10		78			4		4'	80	3 KTS	199	222 13.3 KTS
1700	00	20	SCT	10		78			4		4'	80	9 KTS	195	222 13.3 KTS
1800	50	24	SCT	10		76			3		4	80	9 KTS	195	222 13.3 KTS
1900	1945.5	1585.1	SCT	7		76			3		4	80	9 KTS	195	222 13.3 KTS
2000			SCT	10		75			3		3	80	8 "	295	222 13.3 KTS
2100			SCT	10		76			3		3	80	8 "	290	222 10.6 KTS
2200			SCT	10		75			3		3	80	8 "	290	222 10.6 KTS
2300			SCT	10		75			2		3	80	8 "	290	222 10.6 KTS
2400			SCT	10		75			3		2	80	8 "	290	222 10.6 KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

Long & LAT every six hours with synoptic

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 26 JAN 1967

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10		75		~~3~~	3		2	80	12 KTS	060	222 10.6 KTS
0200	18 4	599	SCT	10		75		~~3~~	3		2	80	12 "	060	222 10.6 KTS
0300			SCT	10		75			3		2	80	12 "	060	222 10.6 KTS
0400			SCT	10		74			2		2	80	10	056	222 10.6 KTS
0500			SCT	10		76			2		2	80	10	056	222 10.6 KTS
0600			SCT	10		76			2		2	80	8	058	222 10.6 KTS
0700			SCT	10		75			3		2	80	8	057	222 10.6 KTS
0800	17 59	160 22	SCT	10		76			3		3	80	12	042	222 10.6 KTS
0900	52	30	SCT	10		77			3		3	80	12	047	230 13.3 KTS
1000	44	38	SCT	10		80			3		3	80	11.5	050	230 13.3 KTS
1100	36	46	SCT	10		84			4		3	80	13	050	230 13.3 KTS
1200	17 28	60 54	SCT	10		83			3		3	78	13	060	230 13.3 KTS
1300	20	06	SCT	10		81			3		3	78	15	060	230 13.3 KTS
1400	11	19	SCT	10		80			3		3	78	15	060	230 13.3 KTS
1500	02	32	SCT	10		80			5		3	77	13	060	330 12.5 KTS
1600	16 52	43	SCT	10		80			4		3	80	13	070	330 12.5 KTS
1700	42	59	SCT	10		79			5		3	80	12	070	330 12.5 KTS
1800	33	41	SCT	10		78			5		3	80	12	070	230 12.5 KTS
1900	23	62 24	SCT	10		78			5		3	80	13	060	230 12.5 KTS
2000	16-13	62-36	SCT	10		76			5		3	80	12	030	223 10.6 KTS
2100			SCT	10		75			5		3	80	13	030	223 7.8 KTS
2200			SCT	10		75			5		3	80	13	030	223 7.8 KTS
2300			SCT	10		75			4		3	80	13	050	223 7.8 KTS
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

LONG AND LAT EVERY SIX HOURS WITH SYNOPTIC

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 27 JAN 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM~~ %	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.	
0100																
0200																
0300																
0400			SCT	10		76			4		3	80	12	050	223	7.8 KTS
0500			SCT	10		76			5		3	81	11	240	223	7.8 KTS
0600			SCT	10		77			5		3	80	10	280	223	7.8 KTS
0700	15-18	163-27	SCT	10		77			5		3	80	10.5	283	223	7.8 KTS
0800	~~16 7~~ 15-15	63-22	SCT	10		80			3		3	80	14	078	220	10.6 KTS
0900	00	30														
1000	47	38														
1100	34	46														
1200	14-17	63-56	SCT	10		83			3		3	80	10	080	220	10.6 KTS
1300	08	04	SCT	10		82			3		3	80	10	090	220	10.6 KTS
1400	59	11	SCT	10		80			3		3	80	10	085	220	10.6 KTS
1500	50	18	SCT	10		82			3		3	79	10	080	220	10.6 KTS
1600	41	25	SCT	10		82			3		3	80	10	080	220	10.6 KTS
1700	32	32	SCT	10		80			3		3	80	11	080	220	10.6 KTS
1800	23	39	SCT	10		78			3		3	80	11	080	220	10.6 KTS
1900	~~15 47N~~	~~164 38W~~	SCT	10		78			3		3	80	11	080	220	10.6 KTS
2000	13-06 N	164-55 W														
2100																
2200																
2300																
2400			SCT	10		79			4		3	81	10	075	217	10.6 KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 28 JAN 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	131	656	SCT	10		78			3		3	81	11	070	217 10.6 KTS
0200			SCT	10		77			3		3	81	10.5	050	217 10.6 KTS
0300			SCT	10		79			3		3	81	10	053	217 10.6 KTS
0400			SCT	10		78			3		3	80	11	075	217 10.6 KTS
0500			SCT	10		78			3		3	80	11	053	217 10.6 KTS
0600			SCT	10		78			3		3	80	11	053	217 10.6 KTS
0700	121 06	66-12	SCT	10		79			3		3	81	11	055	217 10.6 KTS
0800	12 04	66-17	SCT	10		80			4		3	81	11	060	220 9.9 KTS
0900	06	23	SCT	10		80			5		3	81	12	060	220 9.9 KTS
1000	08	29	SCT	10		80			6		3	81	12	070	220 9.9 KTS
1100	10	35	SCT	10		80			8		3	81	12	070	220 9.9 KTS
1200	11-32	66-40	BKN	10		80			7		3	81	12	080	220 9.9 KTS
1300	11-12	66-48	SCT	10		80			4		3	81	12	080	222 9.9 KTS
1400	10	55	BKN	10		80			5		3	81	12	080	221 9.9 KTS
1500	08	02	BKN	10		80			7		3	81	12	080	222 9.9 KTS
1600	11-05	67-10													
1700	55	16													
1800	44	22													
1900	33	28													
2000	10 23	67 35	SCT	11		78			4		3	82	11	085	223 7.4 KTS
2100			SCT	11		78			4		3	82	11	085	223 7.4 KTS
2200			SCT	11		77			4		3	82	11	080	223 7.4 KTS
2300			SCT	11		77			4		3	82	10.5	078	223 7.4 KTS
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 29 JAN 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10		79			1		4	83	15	045	223 7.6 KTS
0200			SCT	10		78			1		4	82	15	045	223 7.6 KTS
0300			SCT	10		78			2		4	81	15.5	045	223 7.6 KTS
0400			SCT	10		78			3		4	81	14	040	223 2.6 KTS
0500			SCT	10		78			3		4	81	14	030	223 2.6 KTS
0600			SCT	10		78			3		4	81	14	030	223 7.6 KTS
0700	52	27	SCT	10		78			3		4	81	14	030	223 2.6 KTS
0800	44	68-35	SCT	10		80			4		4	81	14	045	223 7.6 KTS
0900	36	42	SCT	10		82			4		4	82	14	045	223 11.2 KTS
1000	26	49	SCT	10		83			4		4	84	15	045	223 11.2 KTS
1100	16	56	SCT	10		83			3		4	84	15	045	223 11.2 KTS
1200	09-06	69-04	SCT	15		83			3		4	85	12	045	223 11.2
1300	56	12	SCT	13		83			3		4	84	12	046	223 11.2 KTS
1400	46	20	SCT	14		82			6		4	84	10	045	223 11.2 KTS
1500	37	29	SCT	14		82			5		4	84	11	045	223 11.2 KTS
1600	08-28	69-35	BKN	13		81			6		4	84	13	050	223 11.2 KTS
1700	22	43	BKN	VARIABLE		81			6		4	84	13	045	223 11.2 KTS
1800	15	51	BKN	13		80			6		4	84	14	048	223 11.2 KTS
1900	59	59	BKN	13		79			6		4	85	13	045	223 11.2 KTS
2000	08-03	70-05	SCT	10		78			6		4	85	13	045	223 11.2 KTS
2100			SCT	10		78			6		4	85	13	050	223 11.2 KTS
2200			SCT	10		78			6		4	85	13	050	223 11.2 KTS
2300			SCT	10		78			6		4	85	13	050	223 11.2 KTS
2400			SCT	10		78			6		4	86	13	050	223 11.2 KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 30 JAN 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	07.4N	170.6W	SCT	10		81			4		4	86	16	050	225° 11.2 KTS
0200	05		BKN	10		80			5		4	85	15	050	225° 11.2 KTS
0300	58		BKN	10		81			7		4	85	16	050	225° 11.2 KTS
0400	51	6	BKN	10		81			8		4	85	16	050	223 11.2 KTS
0500	44		BKN	10		81			6		4	85	16	050	223 11.2 KTS
0600	37	29	BKN	10		81			7		4	85	16	050	223 11.2 KTS
0700	06 30	71 12	BKN	10		80			8		4	85	16	050	223 11.2 KTS
0800	23	15													
0900	16	18					TURF								
1000	09	21													
1100	02	24													
1200	55	27	BKN	10		81			8		4	85	15	055	227 11.2 KTS
1300	058 48	71 30	BKN	10		81			9		4	85	16	055	227 11.2 KTS
1400	34	32	OVC	10		81			7		4	85	15	055	227 11.2 KTS
1500	20	34	OVC	5		81			10		4	85	15	055	227 11.2 KTS
1600	06	36	BKN	8		81			8		4	85	14	068	227 11.2 KTS
1700	52	38	BKN	10		80			6		4	85	16	068	227 11.2 KTS
1800	04 38	71 41	BKN	10		80			6		4	86	14	056	227 11.2 KTS
1900			BKN	8		80			7		4	85	14	058	227 11.2 KTS
2000			BKN	10		80			7		4	85	14	065	230 11.2 KTS
2100			BKN	10		80			6		4	85	14	065	230 11.2 KTS
2200			BKN	10		80			6		4	85	14	065	230 11.2 KTS
2300			BKN	10		80			6		4	85	14	065	230 11.2 KTS
2400			SCT	10		80			5		4	85	14	071	230 11.2 KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

60
.5
29.8

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 31 JAN 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	04-4	73-2	SCT	10		80			3		4	85	14	075	230 11.2KTS
0200			SCT	10		79			4		4	85	14	075	230 11.2KTS
0300			SCT	10		79			4		4	85	14	075	230 11.2KTS
0400			SCT	9		79			5		4	85	14	060	230 11.2KTS
0500			SCT	10		79			5		3	85	12	060	230 11.2KTS
0600	52	73-1	SCT	10		79			6		3	85	10	060	230 11.2KTS
0700	0504 2	7400	SCT	10		78			6		3	85	10	075	230 11.2KTS
0800	32	01	SCT	10		81			5		3	85	11	125	220 10.1KTS
0900	52	28	SCT	10		86			5		3	85	11	120	220 10.1KTS
1000	03 14	11	SCT	10		86			5		3	85	12	120	220 10.1KTS
1100	34	14	SCT	10		87			5		3	85	12	120	210 10.1KTS
1200	54	17	SCT	10		87			4		3	85	8	140	210 10.1KTS
1300	02 46	74-21	SCT	10		87			4		3	85	8	145	210 10.1KTS
1400	56	24	SCT	10		87			4		3	85	8	140	210 10.1KTS
1500	17	29	SCT	10		87			5		3	85	8	140	210 10.1KTS
1600	02 18	74-32	SCT	10		87			4		3	85	9	150	210 10.1KTS
1700	38	36	SCT	10		87			4		3	85	9	150	210 10.1KTS
1800	59	40	SCT	10		86			4		3	85	9	150	210 10.1KTS
1900	0150	74 43	SCT	10		83			4		3	80	9	155	210 10.1KTS
2000			SCT	10		82			4		3	85	9	080	223 8.9KTS
2100			SCT	10		82			3		3	84	8	085	223 8.9KTS
2200			SCT	10		82			3		2	83	8	085	223 8.9KTS
2300			SCT	10		82			3		2	83	9	085	223 8.9KTS
2400			SCT	9		82			2		2	85	10	085	225 8.9KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 1 FEBRUARY 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			Sct	10		82			3		3	84	10	085	223 8.9 KTS
0200			Sct	9		81			3		3	84	10	085	223 8.9 KTS
0300			Sct	10		82			3		4	84	9	085	223 8.9 KTS
0400	010	075	SCT	10		82			3		4	84	10	075	223 8.9 KTS
0500			SCT	10		82			3		4	84	10	075	223 8.9 KTS
0600			SCT	10		81			3		3	84	11	075	223 8.9 KTS
0700			SCT	10		81			3		3	84	11	050	214 = 13.3 KTS
0800															
0900															
1000															
1100															
1200			SCT	10		88			3		2	85	8	050	Various
1300			SCT	10		88			3		2	85	6	050	
1400			SCT	10		88			3		2	85	8	050	Courses & Speeds
1500			SCT	10		89			3		2	85	6	055	
1600			SCT	10		89			3		2	85	8	055	
1700			SCT	10		85			2		2	85	8	025	
1800			SCT	10		83			2		2	85	8	025	
1900			SCT	10		82			3		2	85	8	025	
2000															
2100															Various
2200			Sct	10		80			3		2	85	10	060	Courses & Speeds
2300			Sct	9		80			3		2	85	10	035	
2400	008	766	SCT	9		80			3		3	84	10	035	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10		80			3		4	84	10	050	150 STOP
0200			SCT	10		80			3		4	84	11	050	150 STOP
0300			SCT	10		80			3		4	84	11	050	150 STOP
0400			SCT	10		80			3		3	85	11	050	
0500			SCT	10		80			4		3	85	11	030	VARIOUS
0600			SCT	10		81			4		2	85	10	030	
0700			SCT	10		81			5		2	85	10	030	COURSES
0800			SCT	10		82			6		2	85	10	035	
0900			SCT	10		82			8		2	85	10	035	
1000			SCT	10		83			8		2	85	10	035	
1100			SCT	10		84			9		2	85	10	035	
1200			BKN	10		84			7		2	85	10	035	
1300			BKN	10		84			7		2	85	10	035	
1400			BKN	10		84			7		2	85	10	035	
1500			BKN	10		84			7		2	85	10	035	
1600			BKN	10		84			7		2	85	10	035	
1700			OVC	10		85			10		2	85	10	035	
1800			OVC	10		85			10		3	85	9	040	
1900			STC	10		83			10		3	85	10	035	
2000			STC	10		82			7		3	85	10	040	
2100			STC	10		82			6		3	85	9	030	
2200			STC	10		82			5		3	85	8	030	
2300			STC	10		81			5		3	85	8	030	
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	008	066	SCT	10		81			5		2	85	8	040	VAR COURSES &
0200			BKN	10		80			6		2	85	8	040	SPEED
0300			SCT	10		80			5		2	85	8	040	
0400			SCT	10		79			6		2	85	21	350	
0500			SCT	10		79			7		2	85	21	350	"
0600			SCT	10		79			7		2	85	21	350	
0700			SCT	10		79			7		2	85	21	350	
0800			BKN	10		81			7		2	85	19	320	
0900			BKN	10		82			7		2	85	15	320	164 13.3 KTS
1000			BKN	10		84			7		3	85	N	320	164 13.3 KTS
1100			BKN	10		86			7		3	85	11	320	185 13.3 KTS
1200															
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000			~~BKN~~ SCT	10		82			4		3	85	15	015	VARIOUS
2100			SCT	10		82			4		3	85	15	015	COURSES
2200			SCT	10		82			4		3	85	16	620	&
2300			SCT	10		82			4		3	85	16	025	SPEEDS
2400	002	065	SCT	10		81			✓		3	85	16	025	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 4 FEBRUARY 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	10		81			6		3	85	16	025	VARIOUS COURSES
0200			BKN	10		81			6		3	85	16	025	
0300			BKN	10		81			7		3	85	16	025	
0400			BKN	10		81			7		3	85	15	024	
0500			BKN	10		81			6		3	85	15	025	
0600			BKN	10		81			6		3	85	15	025	
0700			BKN	10		82			8		3	85	12	020	
0800			OHN	10		83			8		3	85	10	015	
0900			OHN	10		83			8		3	85	10	010	
1000															
1100															
1200			BKN	10		83			8		3	85	8	030	"
1300			BKN	10		83			8		3	85	8	030	
1400			BKN	10		83			8		3	85	8	030	
1500			BKN	10		85			8		3	85	8	030	
1600			BKN	10		85			6		4	85	12	030	
1700			BKN	10		84			6		4	85	12	030	
1800	002	76	BKN	10		84			6		4	85	12	030	"
1900			BKN	10		82			8		4	85	13	030	"
2000															
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2/5/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.	
0100			BKN	10		82			7		4	85	15	050		
0200			BKN	9		83			7		4	85	15	070		
0300			BKN	8		83			6		3	85	9	025		
0400			SCT	10		80			4		2	85	9	040		
0500			SCT	10		80			4		3	85	16	040		
0600			SCT	10		81			4		2	85	10	050		
0700			SCT	10		82			4		2	85	10	070		
0800			SCT	10		83			4		2	85	10	075	VARIOUS	
0900			BKN	10		84			7		3	85	11	075		
1000		BKN	~~BKN~~ BKN	10		84			7		3	85	~~12~~ 12	110	COURSE	
1100		BKN	~~BKN~~ BKN	10		85			7		3	85	~~12~~ 12	110		
1200		BKN	OVC	10		85			7		3	85	10	110		
1300		BKN	OVC	10		85			6		3	85	10	110		
1400			OVC	10		85			6		3	85	10	110		
1500			OVC	9		84			10		3	85	10	111		
1600			BKN	7		84			8		3	85	14	097		
1700			BKN	7		84			8		3	85	13	097		
1800			BKN	7		84			6		3	85	14	097		
1900			SCT	7		84			5		3	85	13	095		
2000	026	748	SCT	10		83			4		3	84	14	085	134	13.5 KTS
2100			SCT	10		83			3		3	85	14	085	134	13.5 KTS
2200			SCT	10		82			3		3	85	14	085	134	13.5 KTS
2300			SCT	10		82			3		3	85	14	085	134	13.5 KTS
2400			SCT	10		82			3		4	85	14	085	130	13.5 KTS

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE FEBRUARY 6, 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	7		82			6		4	85	14	085	134 13.5 KTS
0200			BKN	7		81			7		4	85	14	085	134 13.5 KTS
0300			BKN	7		81			7		4	85	14	085	134 13.5 KTS
0400			BKN	7		81			6		5	85	15	085	
0500			BKN	9		81			7		4	85	13	085	
0600			BKN	9		82			6		4	85	10	085	
0700			BKN	10		82			5		4	85	10	086	
0800			~~070~~ BKN	10		82			5		4	85	10	070	
0900			~~060~~ BKN	18		83			5		3	85	18	060	
1000			~~060~~ SCT	13		86			4		3	85	13	060	
1100			~~060~~ SCT	15		86			4		3	85	15	060	
1200			SCT	10		86			5		3	85	8	060	060 3KTS
1300			SCT	10		86			5		3	85	8	055	060 3KTS
1400			BKN	10		86			7		3	85	8	055	060 3KTS
1500			BKN	10		84			7		3	85	8	055	060 3KTS
1600			BKN	10		84			8		4	85	12	060	
1700			BKN	10		83			8		4	85	12	060	VARIOUS
1800	03-6	74-1	OVC	7		82			9		4	86	12	060	COURSE
1900			OVC	7		81			9		3	86	10	060	
2000			OVC	7		86			9		4	86	10	060	
2100			OVC	8		80			10		4	86	12	060	VARIOUS
2200			OVC	8		80			10		4	86	10	065	COURSES
2300			OVC	8		81			10		3	86	9	065	
2400			BKN	8		81			8		3	86	9	065	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2/7/68

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	10		81			8		3	86	15	060	
0200			SCT	10		83			5		3	86	14	065	
0300			SCT	10		82			5		3	86	14	060	
0400			SCT	10		82			4		3	85	8	060	Various
0500			SCT	10		83			4		3	86	8	060	
0600			SCT	10		83			4		3	85	8	060	
0700			SCT	10		83			4		3	86	8	060	
0800			BKN	10		84			7		3	86	15	070	
0900			BKN	10		84			8		3	86	15	070	
1000			~~BKN~~ OVC	10		85			9		3	86	15	070	
1100			OVC	10		85			9		3	86	15	070	
1200			SCT	10		85			8		3	86	15	070	
1300			SCT	10		85			7		3	86	15	055	
1400			SCT	10		85			7		3	86	10	060	
1500			SCT	10		84			7		3	86	10	060	
1600			BKN	8		86			8		3	86	13	060	VARIOUS
1700			BKN	8		87			8		3	86	13	070	
1800			SCT	8		84			4		3	86	13	070	
1900			SCT	8		84			4		3	86	13	070	
2000			BKN	7		85			6		2	86	14	100	
2100			BKN	7		84			6		2	86	15	100	
2200			BKN	7		82			6		2	86	15	100	
2300			BKN	7		82			6		2	84	15	100	
2400												86			

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE FEB 8, 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			BKN	10		81			8		3	86	15	060	
0200			SCT	10		85			5		3	86	14	065	
0300			SCT	10		82			5		3	85	14	060	
0400			BKN	9		83			7		3	85	12	050	
0500			BKN	9		82			7		3	85	12	040	
0600			BKN	9		83			7		3	85	12	040	
0700	03-6	74-1	BKN	10		85			7		3	85	10	080	Various
0800			BKN	10		85			7		3	85	10	080	courses
0900			BKN	10		85			7		3	85	10	080	&
1000			BKN	10		85			7		3	85	10	080	speeds
1100			BKN	10		85			7		3	85	10	080	
1200	03-6	74-1	BKN	10		85			7		3	85	12	060	
1300			BKN	10		85			7		3	85	14	060	
1400			BKN	10		85			7		3	85	14	060	
1500			BKN	10		85			7		3	85	14	060	
1600			BKN	8		87			8		3	85	13	070	
1700			BKN	8		87			8		3	85	13	070	
1800			SCT	8		84			4		3	85	13	070	
1900			SCT	8		84			4		3	85	13	070	
2000			BKN	8	8	84			7		3	85	15	058	112° 11.0 KTS
2100			BKN	8	8	82			7		3	85	15	058	112° 11.0 KTS
2200			BKN	8	8	82			7		3	85	15	058	112° 11.0 KTS
2300			BKN	8	8	82			7		3	85	15	058	112° 11.0 KTS
2400			BKN	10		83			7		3	85	15	060	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE FEB 9, 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.	
0100		Bkn	BKN	10		83			7		3	85	15	060	112°	11.0 KTS
0200			BKN	10		83			7		3	85	15	060	112°	11.0 KTS
0300			BKN	10		83			7		3	85	15	065	112°	11.0 KTS
0400			SCT	10		83			5		3	85	15	065	112°	11 KTS
0500			SCT	10		83			5		3	85	15	065	112°	11 KTS
0600	04	72	SCT	10		83			5		3	85	15	070	112°	11 KTS
0700			BKN	10		85			7		3	85	13	070		
0800			BKN	10		85			8		5	85	15	060		
0900			BKN	10		85			8		3	85	15	060		
1000			OVC	10		85			9		3	85	15	070		
1100			OVC	10		85			9		3	85	15	070		
1200			BKN	10		85			8		3	85	15	070		
1300			SCT	10		85			7		3	85	7	075		
1400			SCT	10		85			7		5	85	10	085		
1500			SCT	10		84			7		3	85	10	090		
1600			SCT	10		86			4		3	85	10	090	090	6 KTS
1700			SCT	10		86			4		3	85	10	090	090	6 KTS
1800			SCT	10		86			4		3	86	10	090	090	6 KTS
1900			SCT	10		85			4		3	86	10	090	090	6 KTS
2000			SCT	10		84			4		3	84	13	090	090	6 KTS
2100			SCT	10		84			4		3	84	13	090	090	6 KTS
2200			SCT	10		84			4		3	84	13	090	090	6 KTS
2300			SCT	10		84			4		3	84	13	090	090	6 KTS
2400																

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 10 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	9		83			5		3	85	15	065	
0200			SCT	9		83			6		2	85	10	065	
0300			SCT	9		83			4		4	85	12	065	
0400			SCT	6		83			3		2	85	5	085	040 6.0 KTS
0500			SCT	6		83			3		2	85	5	085	040 6.0 KTS
0600	042	715	SCT	8		83			3		2	85	5	085	040 6.0 KTS
0700			SCT	10		84			3		2	85	9	085	055 11.0 KTS
0800			SCT	4		84			3		2	85	11	100	
0900			SCT	3		87			3		2	85	12	100	
1000			SCT	3		87			3		2	85	12	080	
1100			SCT	3		87			5		2	85	12	100	
1200			SCT	10		87			4		2	85	12	090	
1300	042	715	SCT	10		87			4		2	85	12	090	VARIOUS COURSES
1400			SCT	10		89			4		2	85	12	100	
1500			SCT	10		89			4		2	85	12	100	
1600			SCT	10		91			4		2	85	12	100	
1700			SCT	10		90			4		2	85	12	085	
1800			SCT	10		88			4		2	85	15	085	
1900	042	715	SCT	10		85			4		2	85	13	085	
2000			SCT	10		84			4		2	85	11	085	VARIOUS COURSES
2100			SCT	10		83			4		2	85	10	085	
2200			SCT	10		83			4		2	85	10	085	
2300			SCT	10		83			4		2	85	10	085	
2400			SCT	10		83			3		2	85	10	085	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 11 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	042	715	SCT	10		83			3	8	2	86	10	085	VARIOUS
0200			SCT	10		83			2		2	85	10	090	COURSES
0300			SCT	10		83			2		2	85	10	090	—
0400			SCT	10		83			3		2	85	7	090	—
0500			SCT	10		85			3		2	85	7	090	—
0600			SCT	10		85			3		2	85	7	090	—
0700	042	715	SCT	10		83			3		2	85	7	060	—
0800			SCT	10		84			3		2	85	13	050	
0900			SCT	10		85			3		2	85	13	060	
1000			SCT	10		86			3		2	85	11	060	
1100			SCT	10		87			3		2	85	11	045	
1200			SCT	10		87			3		2	85	12	045	
1300	042	715	SCT	10		87			3		2	85	12	047	
1400			SCT	10		81			3		2	85	12	050	
1500			SCT	10		89			3		2	85	12	060	
1600			SCT	10		85			3		2	85	10	060	Hawaii
1700			SCT	10		85			3		1	85	8	060	Courses
1800			SCT	10		84			3		2	85	8	060	—
1900	042	715	SCT	10		84			3		2	85	8	060	—
2000			SCT	10		86			3		2	85	10	060	—
2100			SCT	10		88			3		2	85	12	060	—
2200			SCT	10		83			3		2	85	10	060	—
2300			SCT	10		82			3		2	85	10	060	—
2400															—

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE FEBRUARY 17, 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10		82			3		2	85	10	060	
0200			SCT	10		82			3		3	85	10	050	
0300			SCT	10		82			3		2	85	10	055	
0400			SCT	9		82			3		3	85	8	045	
0500			SCT	8		82			3		3	85	9	045	
0600			SCT	8		81			3		3	85	9	043	
0700	031	711	SCT	9		80			4		3	85	8	045	
0800			SCT	9		85			3		2	85	10	040	
0900			SCT	9		86			3		2	85	10	045	
1000			SCT	9		86			4		2	85	10	045	
1100			SCT	10		87			3		2	85	10	045	
1200			SCT	10		86			3		—	85	9	045	VARIOUS SPEED
1300	031	711	SCT	10		86			3		—	85	9	045	
1400			SCT	10		86			3		2	85	9	045	
1500			SCT	10		87			2		2	85	9	045	
1600			SCT	10		87			2		2	85	9	045	
1700			SCT	10		87			3		3	85	9	045	
1800			SCT	10		87			3		3	85	8	045	
1900	031	711	SCT	10		86			3		3	85	8	040	
2000			SCT	10		85			3		3	85	10	040	
2100			SCT	10		84			5		2	85	10	040	
2200			SCT	10		83			4		2	85	10	040	
2300			SCT	10		82			4		2	85	10	045	
2400			SCT	10		82			4		3	85	10	040	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2/13/65

TIME	LAT	LONG	PRES	WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			Sct		8		83			4		—	85	7	030	
0200			Sct		8		81			4		—	85	7	030	
0300			Sct		8		80			4		—	85	7	030	
0400			Sct		8		80			4		—	85	7	030	
0500			Sct		9		81			4		—	85	7	030	
0600			Sct		10		80			4		—	85	10	035	
0700			Sct		10		81			5		—	85	10	035	
0800			Sct		10		81			5		—	85	10	035	
0900			Sct		10		83			5		—	85	12	035	
1000			Sct		10		84			5		—	85	12	035	
1100			Sct		10		85			5		—	85	13	035	
1200			Sct		10		87			5		—	85	13	030	
1300			Sct		10		87			5		—	85	15	035	
1400			Sct		10		86			5		—	85	10	030	
1500			Sct		10		86			5		—	85	15	030	
1600			Sct		10		85			5		2	85	10	030	
1700			Sct		10		84			5		3	85	10	030	
1800			Sct		10		83			5		2	85	10	030	
1900			Sct		10		82			5		2	85	13	030	
2000			Sct		10		82			5		2	85	10	055	
2100			Sct		10		82			4		2	85	10	055	
2200			Sct		10		82			4		2	85	10	055	
2300			Sct		10		82			4		3	85	10	060	
2400			Sct		10		81			2		1	85	10	060	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

DATE 2/14/65

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10		81			3		2	85	10	~~060~~	
0200			SCT	10		81			4		2	85	11	060	
0300			SCT	10		81			4		2	85	12	060	
0400			SCT	10		81			5		—	85	13	060	
0500			SCT	10		81			5		—	85	10	055	
0600			SCT	10		82			5		—	85	12	060	
0700			SCT	10		83			5		—	85	11	060	
0800			BKN	10		85			6		—	85	10	065	
0900			SCT	10		85			5		—	85	10	070	
1000			SCT	10		85			5		—	85	10	070	
1100			SCT	10		86			5		—	85	10	070	
1200			SCT	10		86			5		—	85	10	070	
1300			SCT	10		87			5		—	85	6	065	
1400			SCT	10		87			5		—	85	6	065	
1500			SCT	10		84			5		—	85	6	070	
1600			SCT	10		85			5		—	85	8	070	
1700			SCT	10		85			4		—	85	8	070	
1800			SCT	10		83			4		—	85	10	075	
1900			SCT	10		82			4		—	85	10	075	
2000			SCT	10		82			4		—	85	10	070	
2100			SCT	10		81			4		—	85	9	076	
2200			SCT	10		82			4		—	85	10	070	
2300			SCT	10		82			5		—	85	10	070	
2400			SCT	10		81			5		—	85	11	070	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

DATE 2/15/65

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10		81			5		1	85	12	070	
0200			BKN	10		80			6		1	85	12	070	
0300			SCT	10		80			6		1	85	12	070	
0400			SCT	10		80			4		2	85	18	080	
0500			SCT	10		80			4		2	85	18	085	
0600			SCT	10		80			4		2	85	18	095	
0700			SCT	10		80			4		2	85	18	095	
0800			SCT	10		82			4		2	85	18	075	
0900			SCT	10		83			4		2	85	19	070	
1000			SCT	10		85			4		1	85	19	075	
1100			SCT	10		85			4		2	85	19	085	
1200			SCT	10		85			4		2	85	19	090	
1300			SCT	10		85			4		2	85	20	090	
1400			SCT	10		85			4		2	85	10	090	
1500			SCT	10		85			4		2	85	10	090	
1600			SCT	10		85			5		2	85	9	075	
1700			SCT	10		85			5		2	85	9	075	
1800			BKN	10		83			6		2	85	10	090	
1900			BKN	10		83			6		2	85	10	090	
2000			BKN	10		83			6		2	85	10	090	
2100			SCT	10		83			6		1	85	9	085	
2200			SCT	10		84			6		1	85	9	090	
2300			SCT	10		84			6		1	85	9	090	
2400			SCT	10		79			6		2	85	9	090	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 16 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	031	711	SCT	10		81	—	—	5		2	85	7	070	
0200			SCT	10		81	—	—	4		2	85	9	070	
0300			SCT	10		81	—	—	4		2	85	9	070	
0400			SCT	10		81	—	—	4		2	85	9	075	
0500			SCT	10		82	—	—	4		2	85	6	080	
0600			SCT	10		83	—	—	4		2	85	6	085	
0700	031	711	SCT	10		83	—	—	4		2	85	8	100	
0800			BKN	10		83	—	—	4		2	85	8	100	
0900			BKN	10		84	—	—	7		2	85	8	100	
1000			BKN	10		84	—	—	8		2	85	12	100	
1100			BKN	10		84	—	—	8		2	85	11	100	
1200			BKN	10		84	—	—	8		2	85	12	100	
1300	031	711 BKN	SCT	10		86	—	—	5		2	85	10	080	
1400		BKN	SCT	10		86	—	—	5		2	85	10	080	
1500		BKN	SCT	10		86	—	—	5		2	85	12	085	
1600		BKN	SCT	10		84	—	—	5		2	85	10	060	
1700			SCT	10		80	—	—	4		2	85	10	060	
1800			SCT	10		82	—	—	4		2	85	10	060	
1900	031	711	SCT	10		83	—	—	4		2	85	9	060	
2000			SCT	10		81	—	—	4		2	85	9	065	
2100			SCT	10		80	—	—	4		2	85	9	065	
2200			SCT	10		80	—	—	4		2	85	10	060	
2300			SCT	10		80	—	—	4		2	85	10	060	
2400			SCT BKN	10		80	—	—	6		2	85	10	060	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2/17/65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100		~~3CT~~	~~SCT~~ 12kn			80			6		2	85	10	060	
0200			~~SCT~~ BKN			80			6		2	85	10	060	
0300			SCT			80			5		2	85	10	065	
0400			SCT			79			5		1	85	10	060	
0500			SCT			79			5		2	85	10	060	
0600			SCT			78			5		2	85	18	065	
0700			SCT			79			5		2	85	18	070	VARIOUS
0800			SCT			80			5		2	85	18	070	COURSES
0900			SCT			83			5		2	85	12	070	&
1000			SCT			84			5		2	85	12	070	SPEEDS
1100			SCT			84			5		2	85	10	070	
1200			SCT			84			5		2	85	10	085	
1300	037	317	SCT			87			5		2	85	10	110	
1400			SCT			84			5		2	85	10	090	
1500			SCT			84			5		2	85	10	090	
1600			BKN			87			7		2	85	10	090	
1700			BKN			86			7		2	85	10	090	
1800			BKN			86			7		2	85	5	090	
1900			BKN			86			3		2	85	7	090	
2000			BKN			84			3		2	85	7	095	
2100			SCT			83			4		2	85	8	090	
2200			SCT			83			4		2	85	9	080	
2300			SCT			81			4		2	85	9	080	
2400			SCT			81			4		2	85	9	080	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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DATE 3/18/65

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10		81			4		2	85	12	085	
0200			SCT	10		81			3		3	85	12	085	
0300			SCT	10		81			3		2	85	12	085	
0400			SCT	10		81			3		3	85	14	130	
0500			SCT	10		81			5		2	85	14	130	
0600	03 00	71	SCT	10		81			5		3	85	14	130	
0700	03 16	3	SCT	10		82			4		3	85	14	130	
0800	03 -32	71 - 42	SCT	10		82			4		3	85	12	130	174 10.1 KTS.
0900	34	42	SCT	10		83			4		3	85	10	125	174 10.1 KTS
1000	46	44	SCT	10		84			3		3	85	10	130	174 10.1 KTS
1100	57	45	SCT	10		84			4		4	85	10	130	174 10.1 KTS
1200	04 02	71 - 46	SCT	10		85			4		4	85	17	060	" "
1300	~~05~~ 14	~~71~~ 48	SCT	10		86			4		4	85	18	060	" "
1400	18	46	SCT	10		87			4		4	85	15	080	170 10.6 KTS
1500	30	44	SCT	10		87			4		4	85	13.5	095	170 10.6 KTS
1600	04 - 34	71 - 44	SCT	10		86			3		3	85	12	100	170 "
1700	44	42	SCT	10		85			3		3	85	12	100	170 "
1800	54	41	SCT	10		85			3		3	85	12	100	170 "
1900	05 04	40	SCT	10		85			3		3	85	12	100	170 "
2000	05 -19	71 - 39	SCT	8		84			4		3	84	11	120	170 "
2100			SCT	8		83			5		3	84	30	120	165 "
2200			BKN	8		83			6		3	84	20	120	165 "
2300			BKN	8		83			6		3	84	20	120	165 "
2400			BKN	9		83			6		3	85	17	130	165 "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2/19/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	061	716	BKN	9		82			6		3	85	18	120	165 10.5 KTS
0200			OVC	9		81			10		3	85	20	120	165 " "
0300			BKN	9		81			7		3	85	15	119	165 " "
0400			SCT	9		82			4		3	85	13	085	165 10.5 KTS
0500			SCT	9		83			4		3	85	10	075	165 10.5 KTS.
0600	41	36	SCT	9		83			4		3	85	11	075	165 10.5 KTS
0700	51	24	SCT	9		84			4		3	85	10	075	165 10.5 KTS.
0800	0700	71-13	SCT	9		85			3		3	85	12	080	172 "
0900	15	11	SCT	10		87			3		3	85	12	085	172 "
1000	30	09	SCT	10		87			3		3	85	12	085	172 "
1100	46	08	SCT	10		87			3		3	85	12	085	172 "
1200	0802	71-07	SCT	10		89			4		3	85	12	085	172 "
1300	082	71	SCT	10		89			3		2	85	12	090	172 "
1400	22	05	SCT	10		89			3		2	85	12	090	172 "
1500	3	04	SCT	10		89			3		2	85	12	090	172 "
1600	0844	7104	SCT	10		89			4		2	86	10	085	172 "
1700		04	SCT	10		89			4		2	86	10	085	172 10.5 KTS.
1800	2		SCT	10		89			4		2	86	10	085	172 10.5 KTS
1900	0912	7012	SCT	10		89			4		2	86	10	085	172 10.5 KTS.
2000	0918	7059	SCT	10		86			4		2	86	8	050	172 10.5 KTS
2100			SCT	10		85			4		2	86	8	050	172 8.8 KTS
2200			SCT	10		84			4		2	86	8	050	172 8.8 KTS.
2300			SCT	10		84			4		2	86	8	075	" "
2400			SCT	10		84			4		2	86	9	075	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2/20/65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	10 0	70 8	SCT	10		84			4		2	86	8	050	172 8.8 KTS
0200			SCT	10		84			4		2	86	8	050	172 8.8 KTS
0300			SCT	10		84			4		2	86	8	050	172 8.8 KTS
0400			SCT	10		86			2		2	86	8	050	172 "
0500			SCT	10		84			2		2	86	8	050	172 "
0600			SCT	10		84			2		2	86	8	050	172 "
0700	10 54	70 42	SCT	10		84			2		2	86	8	050	172 "
0800	11 01	70 44	SCT	10		87			3		2	86	8	050	170 8.6 KTS
0900	09	43	SCT	10		87			3		2	86	10	100	176 8.6 KTS
1000	17	46	SCT	10		88			2		1	86	8	030	176 8.6 KTS
1100	25	46	SCT	10		91			2		1	87	8	015	176 8.6 KTS
1200	11 - 34	70 - 47	SCT	10		92			2		1	87	8	015	176 8.6 KTS
1300	11 41	70 49	SCT	10		92			3		2	88	8	010	173 8.7 KTS
1400	49	53	SCT	10		92			3		2	88	9	010	173 8.7 KTS
1500	56	42	SCT	10		92			3		2	88	9	015	093 8.7 KTS
1600	12 04	70 - 90	SCT	10		92			3		2	88	9	075	073 "
1700	12	40	SCT	10		92			3		2	88	9	075	073 "
1800	20	40	SCT	10		91			3		1	88	9	075	073 "
1900	30	41	SCT	10		90			3		2	88	9	075	073 "
2000	12 - 38	70 - 41	SCT	10		87			3		2	88	9	075	073 "
2100			SCT	10		86			3		2	88	9	075	072 "
2200			SCT	10		85			3		2	88	9	075	072 "
2300			SCT	10		85			3		2	88	9	075	072 "
2400			SCT	10		85			3		2	88	9	075	072 "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

DATE 2/21/65

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	13 4	70 6	SCT	10		85			4		2	86	9	075	172 8.7 KTS
0200			BKN	10		85			7		2	86	8	075	172 8.7 KTS
0300			BKN	10		85			6		2	86	6	075	172 8.7 KTS
0400			BKN	10		84			6		1	86	7	075	172 8.7 KTS
0500			BKN	10		83			6		1	86	7	080	172 8.7 KTS
0600			BKN	10		83			6		1	86	8	075	172 8.7 KTS
0700															
0800															
0900															
1000															
1100															
1200															
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2-26-65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	111	707	SCT	10		84			3		060	86	11	090	000° 13.3 KTS
0200			SCT	10		84			4		060	86	13	070	000° 13.3 KTS
0300			SCT	10		84			4		060	86	13	070	000° 13.3 KTS
0400															
0500															
0600															
0700	092	706	SCT	10		85			4		060	86	12	090	000° 13.3 KTS
0800	076		SCT	10		86			4		060	86	11	070	300° 13.3 KTS
0900	070		SCT	10		87			7		060	86	10	055	345° 13.3 KTS
1000	055		SCT	10		87			7		060	86	10	055	330° 13.3 KTS
1100			SCT	10		87			3		060	86	10	055	
1200			SCT	10		87			6		060	86	6	065	VARIOUS
1300			SCT	10		88			6		060	86	6	070	COURSES
1400			SCT	10		88			6		060	86	10	075	
1500			SCT	10		88			6		060	86	10	075	000° 13 KTS
1600			BKN	10		91			6		—	87	10	045	" "
1700			BKN	10		87			7		—	87	10	048	" "
1800			BKN	10		87			7		—	87	10	045	" "
1900	094	713	BKN	10		85			7		165	87	10	045	055 20 RPMS
2000			BKN	10		85			7		—	87	10	045	CHANGE COURSE
2100			BKN	10		85			7		—	87	10	045	" "
2200			BKN	10		85			7		—	86	10	040	" "
2300			BKN	10		86			7		—	86	12	045	" "
2400			BKN	10		83			5		060	86	8	035	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 27 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	094	713	SCT	10		83			4		2	86	5	035	VARIOUS @ 0 SPD
0200			SCT	10		83			3		2	86	5	035	COURSES &
0300			SCT	10		83			3		2	86	5	035	SPEEDS
0400			SCT	10		82			3		2	86	10	050	" "
0500			SCT	10		82			3		2	86	10	065	" "
0600			SCT	10		82			3		2	86	12	065	" "
0700			SCT	10		82			3		2	86	12	065	" "
0800			SCT	10		86			4		1	86	9	045	" "
0900			SCT	10		87			3		1	86	10	045	" "
1000			SCT	10		85			3		1	86	10	045	" "
1100			SCT	10		85			3		1	86	10	050	" "
1200			SCT	10		85			3		1	86	10	050	" "
1300	074	713	SCT	10		85			3		1	86	10	050	" "
1400			SCT	10		85			3		1	86	10	050	" "
1500			SCT	10		85			3		1	86	10	050	" "
1600			SCT	10		85			3		1	86	8	140	" "
1700			SCT	10		85			3		1	87	8	140	" "
1800			SCT	10		85			3		1	87	6	140	" "
1900			SCT	10		85			3		1	86	6	065	" "
2000			SCT	10		84			3		1	86	5	065	" "
2100			SCT	10		83			3		2	86	5	055	" "
2200			SCT	10		82			3		2	86	7	055	" "
2300			SCT	10		82			3		2	86	7	055	" "
2400	094	713	SCT	10		83			2		2	86	10	070	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 28 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	044	713	SCT	10		84			3		140	86	10	070	VARIOUS SPEEDS
0200			SCT	10		84			3		140	86	10	070	" "
0300			SCT	10		83			3		140	86	8	070	" "
0400			SCT	10		83			3		140	87	8	070	" "
0500			SCT	10		84			3		140	87	8	070	" "
0600			SCT	10		84			3		140	86	8	070	" "
0700	044	713													" "
0800			SCT	10		86			3		040	87	8	070	" "
0900			SCT	10		88			3		040	88	7	040	284° 13 KTS
1000			SCT	10		88			3		040	88	7	040	284° 13 KTS
1100			SCT	10		89			3		040	87	7	040	
1200			SCT	10		84			3		040	87	8	040	VARIOUS
1300			SCT	10		84			3		040	87	8	040	
1400			SCT	10		89			3		040	87	6	090	
1500			SCT	10		89			3		040	87	6	060	
1600			SCT	10		90			4		—	88	9	065	" "
1700			SCT	10		85			4		—	88	9	065	" "
1800			SCT	10		85			4		—	88	9	065	" "
1900	091	713	SCT	10		85			4		—	88	7	065	" "
2000			SCT	10		87			4		—	86	7	100	" "
2100			SCT	10		84			4		—	86	7	100	
2200			SCT	10		83			4		—	86	7	100	
2300			SCT	10		83			4		—	86	7	090	
2400			SCT	10		83			4		—	86	8	095	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 1 MARCH 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	091	713	SCT	10		85	~~87~~		4		—	86	8	085	Various
0200			SCT	10		84	~~87~~		3		—	86	7	086	"
0300			SCT	10		84	~~86~~		3		—	86	5	083	"
0400			SCT	10		84			3		—	86	5	080	"
0500			SCT	10		84			3		—	86	5	080	"
0600			SCT	10		84			3		—	86	10	080	"
0700	091	713	SCT	8		84			3		—	86	10	080	"
0800			SCT	10		85			3		—	86	8	080	"
0900			SCT	10		88			3		—	86	8	085	"
1000			SCT	10		87			3		140	86	8	085	"
1100			SCT	10		88			5		140	86	10	085	"
1200			SCT	10		88			3		—	86	10	085	"
1300	091	713	SCT	10		88			3		—	86	10	085	"
1400			SCT	10		88			3		—	87	10	85	"
1500			SCT	10		87			3		—	87	10	85	"
1600			SCT	10		87			5		2	87	8	115	"
1700			SCT	10		87			5		2	87	8	180	"
1800			SCT	10		85			5		1	86	8	180	"
1900	091	713	SCT	10		85			5		1	86	8	180	"
2000			SCT	10		84			5		180	87	10	090	"
2100			SCT	10		83			4		180	87	11	090	"
2200			SCT	10		84			4		180	87	11	090	"
2300			SCT	10		83			4		180	87	10	090	"
2400			SCT	10		85			4		180	87	10	090	"

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2 MARCH 1965

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	091	713	Sct	10		82			3		—	87	8	080	VARIOUS CRS.
0200			Sct	10		85			3		—	86	8	075	" "
0300			Sct	9		84			4		—	86	8	070	" "
0400			~~SCT~~ BKN	8		83			8		2	86	8	070	" "
0500			~~SCT~~ BKN	8		83			6		2	86	7	070	" "
0600			BKN	10		81			6		1	86	4	070	" "
0700	091	713	BKN	10		81			6		1	86	4	090	" "
0800			BKN	10		85			6		1	86	4	090	" "
0900			BKN	10		88			6		1	86	4	100	" "
1000			BKN	10		89			6		1	86	4	100	" "
1100			BKN	10		89			6		1	86	4	110	" "
1200			SCT	10		87			5		150°	86	6	085	" "
1300	091	713	SCT	10		88			5		150°	86	6	085	" "
1400			SCT	10		93			4		150	87	6	090	" "
1500															
1600	TUFF														
1700	↓														
1800															
1900															
2000			SCT	10		85			5		100°	87	14	090	VARIOU COURSES
2100			SCT	10		85			5		100°	87	14	090	→ SPEED
2200			SCT	10		84			4		100°	87	14	090	
2300			SCT	10		84			4		100	87	14	090	
2400			SCT	10		84			4		100	86	12	100	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 5 March 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	091	713	SCT	10		84			4		2	86	12	100	319° 5KTS
0200			SCT	10		84			4		2	86	12	100	319° 5KTS
0300			SCT	10		84			4		2	86	12	100	319° 5KTS
0400			SCT	10		82			4		100	87	8	090	319° 5KTS
0500			CIR	10		83			0		100	87	8	095	319° 5KTS
0600			SCT	10		83			3		100	86	9	095	319° 5KTS
0700	091	720	SCT	10		83			3		100	86	9	095	319° 5KTS
0800			SCT	10		84			5		—	86	10	095	" "
0900			SCT	10		88			3		—	87	9	095	VARIOUS COURSES
1000			SCT	10		86			3		—	86	9	090	" "
1100			SCT	10		88			3		—	86	9	050	" "
1200			SCT	10		86			5		—	—	8	050	" "
1300			BKN	10		86			7		—	—	8	070	" "
1400			BKN	10		83			8		—	—	8	070	" "
1500			BKN	10		79			9		2	070	—	—	" "
1600			BKN	10		82			9		2	85	—	—	" "
1700			BKN	10		85			9		2	86	—	—	" "
1800			BKN	10		85			9		2	85	2 ~~1~~	165	" "
1900			BKN	10		85			9		2	84	2 ~~2~~	150	" "
2000			BKN	10		83			8		2	86	3	180	" "
2100			BKN	10		84			8		2	86	4	130	" "
2200			BKN	10		83			7		2	86	3	130	" "
2300			BKN	10		83			7		2	86	3	130	" "
2400			BKN	10		83			7		2	86	2	130	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

DATE 3/4/65

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	086	725	Sct	9		82			3		—	86	2	130	VARIOUS COURSES
0200			SCT	9		82			4		2	86	3	140	" "
0300			SCT	9		81			3		2	86	3	125	" "
0400			SCT	8		81			8		3	86	5	115	" "
0500			SCT	8		81			8		3	86	6	115	" "
0600			SCT	8		80			9		2	86	5	115	" "
0700			SCT	9		80			9		2	86	5	115	" "
0800			~~SCT~~	10		83			9		2	86	5	060	" "
0900			~~SCT~~	10		86			9		2	86	5	060	" "
1000			~~SCT~~	10		88			9		2	86	5	060	" "
1100			~~SCT~~	10		88			9		2	86	5	060	" "
1200			SCT	10		88			4		—	87	3	180	" "
1300			SCT	10		87			5		—	87	4	100	" "
1400			SCT	10		87			5		020	87	4	100	" "
1500			SCT	10		88			5		020	88	7	065	063 13.3 KTS
1600			SCT	10		88			5		020	88	7	065	057 13.3 KTS
1700			SCT	10		88			5		030	88	7	065	057 13.3 KTS
1800			SCT	10		88			5		030	89	10	055	" "
1900			SCT	10		86			6		—	87	6		
2000			SCT	10		84			8		—	87	7	055	055 13.3 KTS
2100			SCT	8		83			8		—	87	2	055	" "
2200			SCT	10		83			9		—	87	3	055	" "
2300			SCT	10		83			8		—	86	2	055	" "
2400			SCT	10		83			3		—	86	3	050	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/5/65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	073	706	SCT	10		83			3		—	86	3	050	055 13.3 KTS
0200			SCT	10		83			3		—	86	3	050	" "
0300			SCT	10		83			3		—	84	3	050	" "
0400			BKN	10		83			7		—	85	3	000	057 13.3 KTS
0500			BKN	10		83			7		-	85	4	357	" "
0600			SCT	10		83			4		2	85	10	355	" "
0700			SCT	10		84			4		2	85	10	355	" "
0800			SCT	10		84			4		2	86	10	355	" "
0900			SCT	10		85			5		2	86	10	355	" "
1000			SCT	10		85			5		2	86	12	035	" "
1100			SCT	10		85			5		2	86	12	020	" "
1200			SCT	10		86			5		3	86	5	353	" "
1300			SCT	10		87			5		2	86	5	353	" "
1400			SCT	10		87			3		2	86	5	353	" "
1500			SCT	10		87			3		2	86	5	353	" "
1600			SCT	10		87			3		2	86	5	350	" "
1700			SCT	10		87			3		2	84	5	010	" "
1800			SCT	10		85			3		2	86	5	010	" "
1900	053	676	SCT	10		85			3		2	86	5	010	" "
2000			SCT	10		84			3		2	86	8	010	" "
2100			SCT	10		84			3		2	86	8	010	059° 13.3 KTS
2200			SCT	10		83			3		2	84	7	010	059° 13.3 KTS
2300			SCT	10		83			3		2	85	7	011	" " "
2400			SCT	10		83			3		2	85	9	013	" " "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/6/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	045	666	SCT	10		83			4		2	86	10	011	059 13.3 KTS
0200			SCT	9		83			4		3	85	8	010	" " "
0300			SCT	9		83			4		3	85	8	010	" " "
0400			SCT	10		83			4		2	85	9	025	" " "
0500			SCT	10		83			5		3	85	9	025	" " "
0600			SCT	10		81			5		3	85	9	025	" " "
0700			SCT	10		83			4		2	85	10	010	" "
0800			SCT	10		85			4		2	85	12	010	" "
0900			SCT	10		85			4		3	85	12	010	" "
1000			SCT	10		86			4		2	85	10	010	" "
1100			SCT	10		86			4		2	85	10	010	" "
1200			SCT	10		86			4		2	85	10	040	" "
1300	033	644	SCT	10		85			4		2	85	10	040	057 13.3 KTS
1400			SCT	10		87			5		2	85	10	040	" " "
1500			SCT	10		86			5		3	85	14	036	" " "
1600			SCT	10		87			5		2	85	14	035	" " "
1700			SCT	10		87			5		2	85	9	040	" " "
1800			SCT	10		84			5		3	84	9	030	" "
1900			SCT	10		80			5		3	84	11	030	" "
2000			SCT	10		80			5		3	84	10	030	" "
2100			SCT	10		80			5		3	83	12	030	" "
2200			SCT	10		80			5		3	83	12	030	" "
2300			SCT	10		80			5		3	83	12	030	" "
2400			CIR	10		80			5		3	83	11	057°	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/7/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	020	625	CIR	10		79			-		3	83	11	057	057° 13.3 KTS.
0200			SCT	10		78			2		3	83	11	057	" "
0300			SCT	10		78			2		3	83	11	057	" "
0400			SCT	10		78			2		3	83	11	057	" "
0500			SCT	10		78			2		3	83	10	057	" "
0600			SCT	10		78			2		3	83	10	057	" "
0700			SCT	10		79			2		3	83	10	057	" "
0800			SCT	10		80			3		3	83	9	060	" "
0900			SCT	10		81			3		3	83	6	060	" "
1000			SCT	10		82			3		3	83	5	090	" "
1100			SCT	10		83			3		3	83	5	090	" "
1200			SCT	10		85			3		3	83	7	090	059° 13.3 KTS
1300			SCT	10		85			4		3	83	7	060	059 13.3 KTS
1400			SCT	10		86			4		3	83	6	030	059 13.3 KTS
1500			SCT	10		86			4		3	83	6	030	059 13.3 KTS
1600			SCT	10		85			2		3	83	11	057	059 13.3 KTS
1700															
1800															
1900															
2000		TUFF													
2100															
2200															
2300															
2400	004	600	SCT	10		81			4		2	83	7	090	VARIOUS COURSES

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 8 MARCH 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	004	600	SCT	10		81			4		2	83	7	090	VARIOUS COURSE
0200			SCT	10		81			4		2	83	7	090	" "
0300			SCT	10		80			4		2	83	7	090	" "
0400			BKN	10		79			5		2	83	5	070	" "
0500			BKN	10		79			7		2	83	7	070	" "
0600			BKN	10		79			7		2	83	7	070	" "
0700	004	600	BKN	10		81			7		2	83	7	070	" "
0800			BKN	10		83			7		2	82	5	090	" "
0900															
1000															
1100															
1200		TUFF													
1300															
1400															
1500															
1600			SCT	10		84			5		2	84	5	050	VARIOUS
1700			SCT	10		83			5		2	84	4	090	COURSES +
1800			SCT	10		80			5		2	84	3	090	SPEED
1900	004	600	SCT	10		81			5		2	84	3	090	"
2000			SCT	10		80			5		2	83	5	080	" "
2100			SCT	10		80			5		2	83	5	080	" "
2200			~~SCT~~ BKN	10		80			6		2	83	5	080	" "
2300			~~SCT~~ BKN	10		80			6		2	83	5	080	" "
2400			SCT	10		80			1		2	83	6	080	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/9/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	ϕϕ4	6ϕϕ	SCT	10		80			1		2	83	7	080	VARIOUS CTSPD's
0200			SCT	10		79			1		2	82	7	080	" "
0300			SCT	10		79			2		2	82	7	080	" "
0400			SCT	10		78			2		2	83	7	075	" "
0500			SCT	10		79			2		2	83	7	080	" "
0600			SCT	10		77			2		2	83	7	080	" "
0700	ϕϕ4	6ϕϕ	SCT	10		79			2		2	83	7	080	" "
0800			SCT	10		80			3		—	83	5	080	" "
0900			SCT	10		83			5		—	82	2	080	" "
1000			BKN	8		84			7		—	82	3	080	" "
1100			SCT	10		84			5		—	82	3	080	" "
1200			SCT	10		85			5		—	82	5	055	" "
1300			SCT	10		85			5		—	82	5	055	" "
1400			SCT	10		85			5		—	82	5	055	" "
1500			SCT	10		85			5		—	82	5	055	" "
1600			~~SCT~~ BKN	10		85			6		1	84	3	020	" "
1700			BKN	10		85			8		1	84	5	070	" "
1800			BKN	10		80			6		1	84	7	095	" "
1900	ϕϕ4	6ϕϕ	SCT	10		77			5		1	84	4	095	" "
2000			SCT	10		79			5		2	84	6	090	" "
2100			SCT	10		79			6		—	82	5	085	" "
2200			SCT	10		78			6		—	83	5	080	" "
2300			SCT	10		78			6		—	82	6	095	" "
2400			BKN	7		79			8		—	82	5	110	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 10 MARCH 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	004	600	BKN	8		78			8		2	82	7	105	VARIOUS SPDS + CO.
0200			BKN	8		78			7		2	82	8	100	" "
0300			SCT	8		78			4		2	82	8	100	" "
0400			SCT	10		78			4		—	82	7	100	" "
0500			SCT	10		78			4		—	82	7	110	" "
0600			SCT	10		79			4		—	82	7	115	" "
0700	004	600	SCT	10		79			4		—	82	7	115	" "
0800			BKN	10		83			6		1	82	7	110	" "
0900			BKN	10		83			6		1	83	7	095	" "
1000			BKN	10		84			6		2	83	8	095	" "
1100			BKN	10		83			6		3	83	8	095	VARIOUS SPDS/COURSES
1200			BKN	10		83			6		—	83	8	090	" "
1300	004	600	SCT	10		83			5		—	83	8	070	" "
1400			SCT	10		84			5		—	83	6	075	" "
1500			SCT	10		84			5		—	82	7	078	" "
1600			SCT	10		55			4		—	82	7	100	" "
1700			SCT	10		82			4		—	82	7	100	" "
1800			SCT	10		81			4		—	82	7	100	" "
1900	004	600	SCT	10		80			4		—	82	8	100	" "
2000			SCT	10		80			4		—	83	10	110	" "
2100			SCT	10		80			4		—	83	12	100	" "
2200			SCT	10		80			4		—	83	12	100	" "
2300			SCT	10		80			4		—	83	12	100	" "
2400			SCT	10		79			4		—	82	7	100	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/10/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	004	600	SCT	10		79			~~10~~ 4		—	82	7	095	VARIOUS COURSES & SPDS
0200			OVC/RAIN	10		79			10		—	82	7	095	" "
0300			SCT	10		77			4		—	82	5	075	" "
0400			SCT	10		77			4		—	82	5	070	" "
0500			SCT	10		77			4	-	—	82	5	070	" "
0600			SCT	10		77			4		—	82	8	070	" "
0700			SCT	10		80			4		2	83	10	080	" "
0800			SCT	10		80			2		3	82	14	080	VARIOUS COURSES & SPDS
0900			SCT	10		80			3		3	83	11	080	" "
1000			SCT	10		82			3		3	83	10	080	" "
1100			SCT	10		83			3		3	83	11	080	048 13.3 KTS
1200			SCT	10		84			3		2	84	12	070	" "
1300	000	~~0600~~	SCT	10		85			3		2	84	10	025	" "
1400			SCT	10		84			3		2	85	10	070	" "
1500			SCT	10		84			3		2	85	10	070	" "
1600			SCT	10		84			4		2	84	6	088	" "
1700			SCT	10		85			4		2	84	6	084	" "
1800			SCT	10		85			4		2	84	6	088	" "
1900			SCT	10		85			4		2	84	6	088	" "
2000			SCT	10		83			4		3	83	9	090	055 10.1 KTS
2100			SCT	10		81			4		3	83	9	090	" "
2200			SCT	10		81			4		3	83	9	090	" "
2300			SCT	10		81			4		3	83	9	090	" "
2400			SCT	10		80			4		3	83	9	090	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/12/65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	015	580	SCT	10		80			4		—	080	8	100	055 10.1 KTS
0200			SCT	10		80			4		—	080	8	100	" "
0300			SCT	10		80			4		—	080	8	100	" "
0400			SCT	10		81			2		2	83	10	045	" "
0500			SCT	10		81			2		2	83	10	045	" "
0600			SCT	10		80			2		2	83	8	045	" "
0700			SCT	10		80			3		2	83	12	100	" "
0800			SCT												
0900															
1000															
1100															
1200			SCT	10		84			4		2	83	10	120	ANCHORED
1300	050	575	SCT	10		85			4		2	83	11	120	"
1400			SCT	10		87			4		2	83	10	120	"
1500			SCT	10		87			4		2	83	16	120	"
1600			SCT	10		85			4		—	83	10	110	"
1700			SCT	10		87			4		—	83	8	100	"
1800			SCT	10		82			4		—	83	8	100	"
1900			SCT	10		80			4		—	83	8	100	"
2000															
2100															
2200															
2300															
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/13/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400			SCT	10		79			2		—		10	115	ANCHORED
0500			SCT	10		79			2		—		8	110	" "
0600			SCT	10		80			2		—		9	110	" "
0700			SCT	10		81			2		—		11	108	" "
0800			SCT	10		82			3		—		10	115	" "
0900			SCT	10		83			3		—		9	118	" "
1000			SCT	10		85			3		—		9	150	" "
1100			SCT	10		85			3		—		6	120	" "
1200			SCT	10		86			3		—		10	110	" "
1300			SCT	10		87			3		—		10	110	" "
1400			SCT	10		87			3		—		10	110	" "
1500			SCT	10		86			3		—		10	110	" "
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400			SCT	10		79			3		—		10	095	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/14/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	020	575	SCT	10		80			3		—	—	11	097	ANCHORED
0200			SCT	10		79			3		—	—	11	092	" "
0300			SCT	10		77			4		—	—	12	092	" "
0400			SCT	10		79			4		—	—	13	100	"
0500			SCT	10		79			4		—	—	15	105	"
0600			SCT	10		79			4		—	—	17	115	"
0700	030	575	SCT	10		80			4		—	—	17	105	"
0800			SCT	10		85			4		—	—	14	110	"
0900			SCT	10		85			4		—	—	10	110	"
1000			SCT	10		86			4		—	—	10	110	"
1100			SCT	10		87			4		—	—	11	110	"
1200			SCT	10		86			3		~	~	14	130	"
1300	020	575	SCT	10		85			3		—	—	13	130	"
1400			SCT	10		85			4		—	—	14	130	"
1500			SCT	10		85			4		—	—	19	130	"
1600			SCT	10		84			4		—	—	14	130	"
1700			SCT	10		83			4		—	—	11	135	"
1800			SCT	10		84			4		—	—	10	120	"
1900			SCT	10		84			4		—	—	10	110	"
2000			SCT	10		83			3		—	—	10	105	"
2100			SCT	10		82			3		—	—	9	100	"
2200			SCT	10		81			3		—	—	8	090	"
2300			SCT	10		80			3		—	—	9	090	"
2400			SCT	10		80			4		—	—	7	086	"

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/15/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	DEW PT	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	020	575	SCT	10		79			4		—	—	6	086	ANCHORED
0200			SCT	10		79			3		—	—	5	086	" "
0300			SCT	10		79			3		—	—	6	086	" "
0400			SCT	10		79			3		—	—	5	100	"
0500			SCT	10		80			3		—	—	5	095	"
0600			SCT	10		81			4		—	—	5	095	"
0700			SCT	10		81			5		—	—	5	095	"
0800			SCT	10		81			5		—	—	5	095	"
0900			SCT	10		82			5		—	—	5	095	"
1000			BKN	10		88			6		—	—	13	115	13.3KTS 308°
1100			BKN	10		87			8		—	—	10	118	" "
1200															
1300															
1400		TUFF													
1500															
1600			OVC	7		80			10		3	84	9	115	13.3KTS 308°
1700			OVC	7		78			10		3	83	8	110	" "
1800			OVC	5		75			10		3	83	7	115	" "
1900			OVC	7		76			10		3	83	7	115	" "
2000			OVC	10		75			10		—	84	7	350	" "
2100			OVC	10		75			10		—	84	7	330	" "
2200			OVC	10		75			9		—	84	7	356	" "
2300			OVC	10		75			9		—	84	7	350	" "
2400			BKN	10		80			8		—	84	11	085°	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/16/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	043	606	BKN	10		80			9		—	84	12	082	308° 13.3 KTS
0200			BKN	10		80			9		—	84	10	085	" "
0300			BKN	10		80			9		—	84	7 8	090	" "
0400			BKN	10		80			9		—	84	9	090	" "
0500			BKN	10		80			8		—	84	10	090	" "
0600		TUFF	BKN	10		81			7		—	84	7	075	" "
0700			SCT	10		81			9		—		11	085	" "
0800			BKN	10		81			9		3	84	12	090	328° 13.3 KTS
0900			BKN	10		82			9		3	85	12	090	" "
1000			BKN	10		83			8		3	85	13	090	" "
1100			BKN	10		84			8		3	85	11	090	" "
1200			BKN	10		85			8		3	85	11	090	" "
1300			BKN	10		85			9		3	85	12	080	" "
1400			BKN	10		85			9		—	—	13	080	~~Lying~~
1500			BKN	10		85			9		—	—	13	085	AT
1600			BKN	10		84			8		—	—	11	080	Anchor
1700			BKN	10		84			9		—	—	11	083	" "
1800			BKN	10		84			7		—	—	12	083	" "
1900	059	621	BKN	10		84			6		—	—	13	085	" "
2000			BKN	10		82			6		—	—	14	82	"
2100		ADDLE	BKN	10		80			6		—	—	15	80	"
2200			BKN	10		80			6		—	—	14	80	"
2300			BKN	10		80			0		—	—	12	80	"
2400															"

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/17/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	059	621	SCT	10		80			4		—	—	10	090	ANCHORED RAL. MYRA
0200			SCT	10		81			4		—	—	10	090	" "
0300			SCT	10		80			4		—	—	9	085	" "
0400			SCT	10		80			3		—	—	13	080	"
0500			SCT	10		82			3		—	—	16	080	"
0600			SCT	10		83			3		—	—	14	080	"
0700	059	621	SCT	10		83			3		—	—	12	080	"
0800			SCT	10		84			3		—	—	12	080	"
0900			SCT	10		85			4		—	—	13	080	"
1000			SCT	10		85			5		—	—	15	075	"
1100			SCT	10		85			5		—	—	15	075	"
1200			SCT	10		86			5		—	—	15	052	"
1300	059	621	SCT	10		85			5		—	—	13	052	"
1400			SCT	10		89			5		—	—	14	052	"
1500			SCT	10		89			5		—	—	13	055	" "
1600			SCT	10		89			5		—	—	12	055	"
1700			SCT	10		86			5		—	—	14	055	"
1800			SCT	10		83			5		—	—	12	055	"
1900	059	621	SCT	10		83			3		—	—	12	050	"
2000			SCT	10		83			3		—	—	11	050	"
2100			SCT	10		82			3		—	—	13	050	"
2200			SCT	10		81			5		—	—	15	060	"
2300			SCT	10		81			3		—	—	15	070	"
2400			SCT	10		81			3		—	—	15	070	"

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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DATE 3/18/65

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	~~OPA SKY~~	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	057	621	SCT	10	—	80	—	—	4		—	—	10	075	ANCHORED PALMYRA
0200			SCT	10	—	80	—	—	3		—	—	14	075	" "
0300			SCT	10	—	79	—	—	4		—	—	11	075	" "
0400			SCT	10	—	79			3		—	—	12	075	" "
0500			SCT	10	—	80			3		—	—	15	075	" "
0600			SCT	10	—	80			3		—	—	15	075	" "
0700			SCT	10	—	81			3		—	—	17	075	" "
0800			SCT	10	—	83			3		—	—	15	060	" "
0900			SCT	10	—	84			3		—	—	16	055	" "
1000			SCT	10	—	85			3		—	—	16	055	" "
1100			SCT	10	—	85			3		—	—	17	055	" "
1200			SCT	10	—	86			3				16	050	" "
1300	057	621	SCT	10	—	88			3				17	050	" "
1400			SCT		—	87			3				17	050	" "
1500			SCT		—	87			3				18	060	" "
1600			SCT		—										
1700			SCT		—										
1800					—										
1900					—										
2000					—										
2100					—										
2200					—										
2300					—										
2400			SCT	10	—	82			5				18	040	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/19/65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	057	621	SCT	10	—	81			5		—	—	17	060	Anchored
0200			SCT	10	—	81			5		—	—	18	060	"
0300			BKN	10	—	81			7		—	—	20	060	"
0400			SCT	10	—	81			5		—	—	23	043	"
0500			SCT	10	—	81			5		—	—	15	043	"
0600			SCT	10	—	81			5		—	—	15	058	"
0700			SCT	10	—	81			5		—	—	15	058	
0800			SCT	10	—	81			4		—	—	7	062	030 13.2 kts
0900			SCT	10	—	81			4		—	—	12	030	"
1000			SCT	10	—	82			4		—	—	12	043	" "
1100												85			
1200			SCT	10		83			4		6	85	13	065	" "
1300			SCT	10		84			4		6	85	13	065	" "
1400			SCT	10		85			4		6	85	14	065	" "
1500			SCT	10		85			4		6	85	14	065	" "
1600			SCT	10		85			5		5	85	14	060	" "
1700			SCT	10		85			5		5	85	14	060	" "
1800			SCT	10		83			5		5	85	15	060	" "
1900			SCT	10		81			5		5	85	14	060	" "
2000			SCT	10		81			4		4	85	13	056	" "
2100			SCT	10		81			4 5		4	85	13	056	" "
2200			SCT	10		81			5		3	85	13	058	" "
2300			SCT	10		81			5		3	85	13	058	" "
2400			SCT	10		81			5		3	85	12	054	" "

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/20/65

TIME	LAT	LONG	PRES WEA	VIS	~~SLP~~	DRY B	~~DEW PT~~	~~HUM %~~	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.	
0100	094	611	SCT	10	—	81	—	—	4	—	4	84	12	056	020	13.3 KTS.
0200			SCT	10	—	81	—	—	4	—	3	83	12	053	"	"
0300			SCT	10	—	81	—	—	4	—	3	83	12	055	"	"
0400			SCT	10		80			4		3	82	13	053	"	"
0500			SCT	10		80			4		3	82	13	053	"	"
0600			SCT	10		80			4		3	82	13	053	"	"
0700			SCT	10		80			4		3	82	13	053	"	"
0800			SCT	10		83			5		3	82	13	053	"	"
0900			SCT	10		83			5		3	82	13	060	018	"
1000			SCT	10		83			5		3	82	13	060	"	"
1100			SCT	10		83			5		3	82	13	060	"	"
1200			SCT	10		83			4		3	82	6	079	"	"
1300	115	605	SCT	10		83			4		3	82	6	079	"	"
1400			SCT	10		83			4		3	82	7	083	"	"
1500			SCT	10		83			4		3	82	6	085	"	"
1600			SCT	10		84			4		3	81	4	091	"	"
1700			SCT	10		84			4		3	81	4	094	"	"
1800			SCT	10		84			4		3	81	4	089	"	"
1900			SCT	10		84			6		3	81	4	080	"	"
2000			SCT	10		83			4		3	81	6	080	"	"
2100			SCT	10		82			4		3	81	8	075	"	"
2200			SCT	10		83			4		3	81	8	080	"	"
2300			SCT	10		86			4		2	81	8	080	"	"
2400	143	596	SCT	10		80			4		2	81	8	080	"	"

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3/21/65

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	143	596	SCT	10		80			4	~~2~~	2	82	8	080	018 13.3KTS
0200			SCT	10		79			4	~~2~~	2	80	8	080	" "
0300			SCT	10		79			4	~~1~~	1	80	10	080	" "
0400			SCT	10		79			4	—	2	80	4	084	" "
0500			SCT	10		77			5	—	1	80	5	083	" "
0600			SCT	10		77			5	—	1	80	5	085	" "
0700			SCT	10		79			3	—	1	80	4	084	" "
0800			SCT	10		79			4	—	1	80	6	080	" "
0900			SCT	10		79			4	—	1	80	5	147	" "
1000			SCT	10		79			4	—	1	80	5	147	" "
1100			SCT	10		82			4	—	1	80	5	146	" "
1200			SCT	10		83			4	—	1	80	7	~~355~~ 120	
1300	599	168	BKN	10		85			5	—	1	80	7	~~355~~	" "
1400			BKN	10		85			5	—	1	080	7	180	
1500			SCT	10		85			4	—	1	80	7	180	
1600			SCT	10		85			4	—	—	81	8	185	" 9
1700			SCT	10		83			4	—	—	81	8	185	" 1
1800			BKN	10		80			6	—	—	81	9	185	" 1
1900			BKN	10		80			8	—	—	81	9	125	" 1
2000			BKN	8		77			7	—	—	80	6	225	" "
2100			SCT	8		77			5	—	—	80	5	225	" "
2200			SCT	8		76			5	—	—	80	14	332	" "
2300			SCT	10		76			5	—	—	80	12	328	" "
2400															

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

ISLAND SUMMARIES

HOWLAND ISLAND

A new colony of Sooty Terns, in addition to the one that has existed on the windward shore since July 1964, has established itself near the Amelia Earhart Lighthouse. This colony was rapidly expanding during the two day visit. Gray-backed Terns are becoming increasingly common, as a nesting species, with a nesting colony of 60 nests along the edge of the new Sooty Tern colony.

Red-footed Boobies and Red-tailed Tropicbirds were at the low point in their breeding cycles whereas the Greater Frigatebird, 63 nests with fresh eggs, was just beginning a new cycle. Very small numbers of roosting Red-footed and Blue-faced Boobies were observed.

One Sooty Tern wearing an old Biological Survey band, series # 38, was captured and released.

BAKER ISLAND

Large numbers of Common Noddy Terns were beginning a new breeding cycle with 35 bandable young and 342 eggs packed onto the small islet in the lagoon.

Surf conditions on this island were especially bad and necessitated carrying all gear ¼ mile across the island in order to make the departure. The entire afternoon, on the first day of landing, was devoted to six unsuccessful attempts to launch the raft through heavy surf with no calm periods. During the departure one raft load of personnel and gear was flipped over and some items of gear were lost.

McKEAN ISLAND

Saturation of the Sooty Tern colony, that is located in the heavy growth of *Sida fallax*, on three successive trips, has begun to yield results. A total of 192 returns were recorded during two nights of banding. Of these returns, 100 were of birds that had been banded during February 1964 while the remaining 92 were of birds that had been banded during July 1964.

There was an unusually large concentration of bird ticks in the Sooty Tern colonies along the west shore of the island. All members of the field party received numerous very irritating tick bites during the two day visit. Live collections were made.

Three birds, presumed to be aberrant White-throated Storm Petrels (*Nesofregatta albigularis*), were collected. This species was so abundant and conspicuous that 166 were banded with a minimum of effort.

One Hawaiian Noddy Tern banded on Cook Island, Christmas Island was captured.